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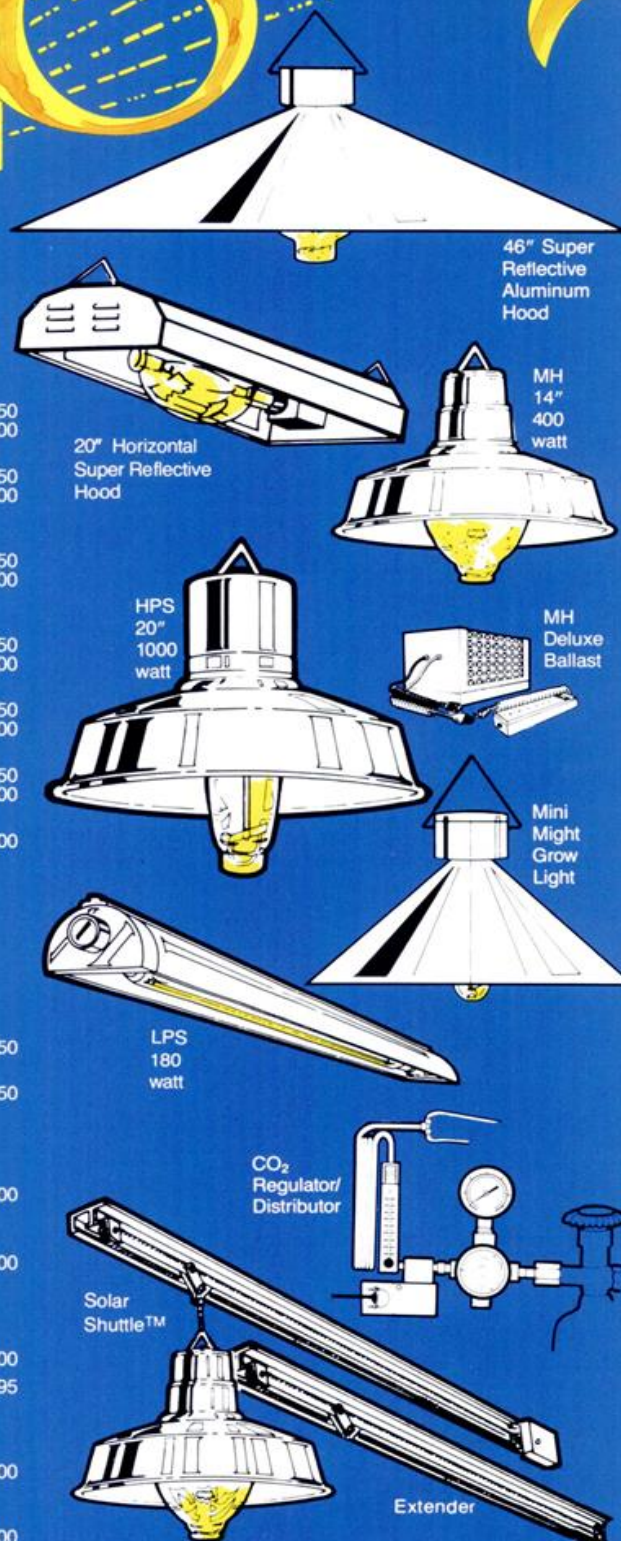
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CONTENTS

FEATURES ★ COLUMNS ★ DEPARTMENTS

MARIJUANA AND YOUR HEALTH

by Peter Gorman 32
You've seen the scary TV commercials and heard the phony government facts, now read the *real* story on the potential hazards of marijuana smoking.

CYBERPUNK/WILLIAM GIBSON INTERVIEW

by Lou Stathis 37
Cyberpunk is changing the face of science fiction. Former *Heavy Metal* editor Lou Stathis gives the scoop on what cyberpunk is about and interviews William Gibson, the progenitor of the genre.

THE SILVER WALKS

by William Gibson 40
Straight off writing the screenplay for "Aliens III," cyberpunk's leading light sends us a chapter from his upcoming book, *Mona Lisa Overdrive*.

THE COCAINE-CONTRA CONNECTION

by Joel Millman 42
The ever-murkier, never ending story of Contra drug smuggling and arms shipments.

CHEF RA'S PSYCHEDELIC KITCHEN

by Ra James 45
Introducing our new food columnist. Ra's recipes are guaranteed to put the ital in your vital!

THE SWEDISH INVASION

by Michael J. Weldon 56
The Psychotronic guy travels to Sweden and finds, much to his surprise, the world's leading underground rock scene.

On the cover: Chef Ra, photograph by Andre Grossmann.

HEP CAT

by John Holmstrom/Aid MacSpade 52

HIGH ART

by Carlo McCormick 55

ASK ED

by Ed Rosenthal 62

THE RUDERALIS FACTOR

by Ed Rosenthal & Jorge Cervantes 64
The best thing about *ruderalis* is that most cops don't even know it's marijuana. The plant also flowers immediately—regardless of photo period. But will it get you high? Two growing experts face off on the biggest outdoor growing controversy of the year.

RUSHES

by Jim Poling 85

THE HOUND'S EYE VIEW

by James Marshall 96

TOP 100

by John Holmstrom 97
Oh boy, you won't believe who's #1! Is this supposed to be some kind of sick joke, readers?

LETTERS 6

HIGHWITNESS NEWS

edited by John Holmstrom 19
Cokehead cops, pirate radio, Lawrence Taylor, Go-Go Girl of the Month, and other assorted tidbits designed to whet your appetite for what lies ahead.

TRANS-HIGH MARKET QUOTATIONS

compiled by Espy LaCopa 25

TRANS-HIGH MARKET ANALYSIS LETTERS 27

Join the wild hemp hunt and win a free HIGH TIMES subscription.

CENTERFOLD 50

Indica bud goes fast these days, but not this fast.

CLASSIFIED 78

PRODUCTS 69

BOOKSTORE 94



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J.D. KING

● Send your letters to HIGH TIMES "Letters," 211 E. 43rd St., NY, NY 10017.

BAD NEWS

I thought your Summer of Love issue was swell, especially seeing the Dead album sheet. But there's bad news. The guy who's been producing these high quality sheets got busted at the show in Philly on Friday, July 10th. Apparently I got the last two pages before he went down.

I would just like to express my greatest appreciation for the work this guy's done and my deepest sympathy for the trouble it's caused him.

Also, to the cop who busted him: Fuck you.

—A.Z.
Louisville, Kentucky

PARTY ANIMALS

I'm a 15-year-old Dead/Pothead, and I'd like to protest the trashing of my generation by Ken Weiner and The General. Sure it's true we have a few more asshole yuppie kids than you guys had in the '60s and '70s, but there're quite a few of us that know full well what it is to drop acid or become so drunk that you vomit out your digestive track. The problem with yuppies is that their parents didn't fuck up their minds enough.

—Scruffy Pete,
Brooklyn, New York

I just finished reading your article on "You Gotta Fight, Kill & Maim for Your Right to Party." As I take a hit of hash from my bong, I must say I totally agree! They tell us this is a free country, but every day there's something else you can't do. Soon we'll have another Russia on our hands.
—The Wild Woman
Newport, Vermont

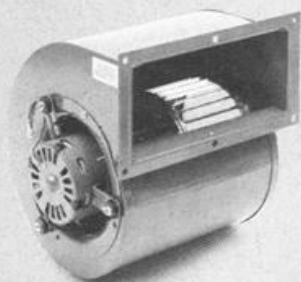
I am a 30-year-old home-grower (indoors), and now spend most of my time with either pot or LSD. I am writing because I resent articles such as the one in your August '87 "wild party" issue, which featured a tirade by Ken Weiner and the General. This article is just the sort of thing you guys keep doing over and over again to slit your own throats. The text of the article is boring, juvenile trash, and the photo feature after, "How to Throw a Party" was a fun, but essentially tasteless piece of anti-propaganda.

Do you imagine for a moment that those who stand against us do not read your magazine in order to gain an understanding of their enemy? What do they see? Not something to show them that we are another type of civilized human being—nooo—we gotta be party animals, man!

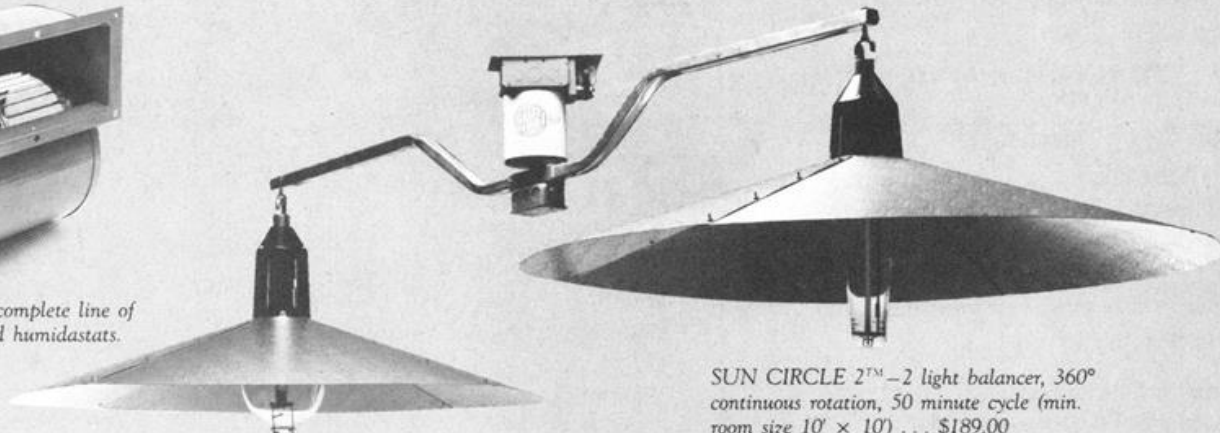
This is stupid. The trashed image of The General, laying on the floor at the end of the article was every parent's

continued on page 14

DIAMOND LIGHTS

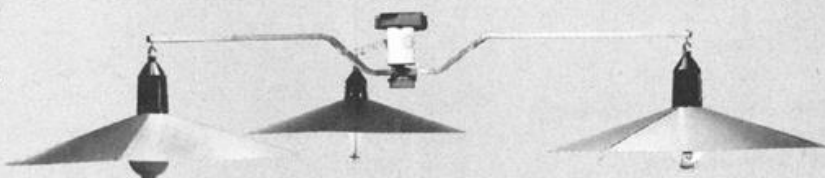


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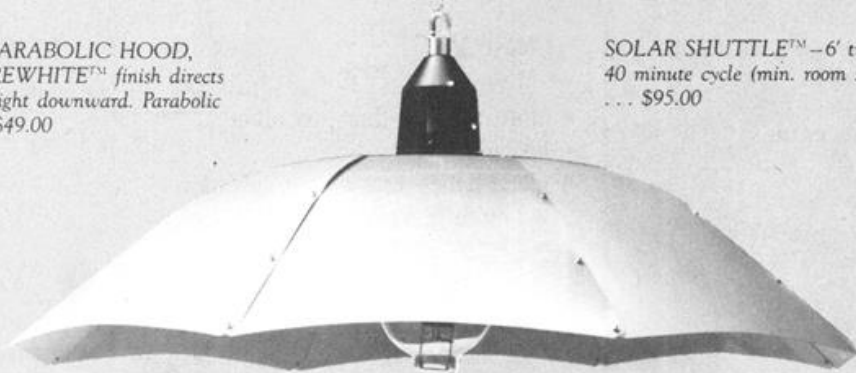
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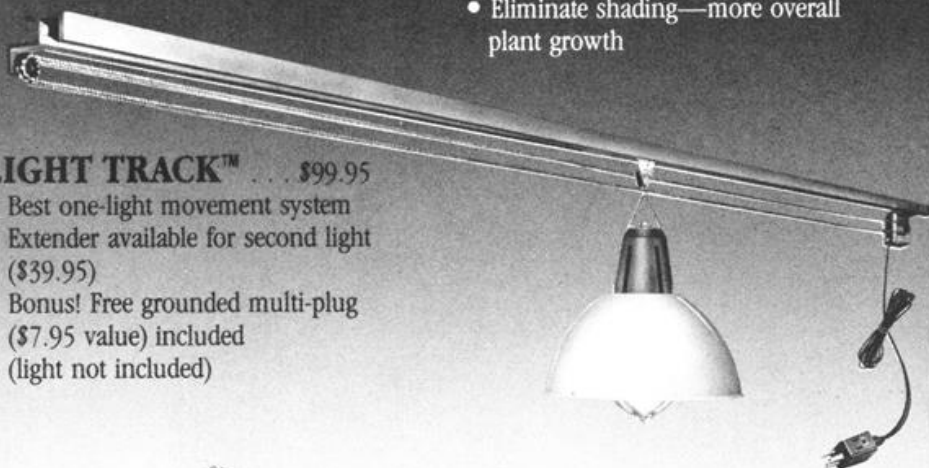
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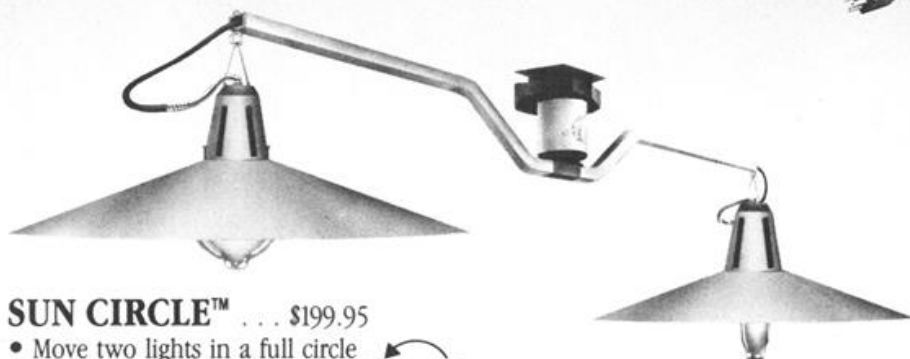
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Grow Nutrient (20-6-16) 1 lb./100 gal . . .	\$ 12.00	
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- louvered HPS ballast

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1 unit (Pump tray) . . .	\$230.00
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- ☐ 2 units, 1 deluxe light MS1000 bulb w/46" reflector plus 1 solar shuttle . . . Regularly \$663.50
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1.5 cubic feet (approx. 38#)	\$7.99

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This is a 100% organic planting medium for all plants. Containing no chemical fertilizers, it won't cause plant burn or tie up nutrients.

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Squirrel cage fans are perfect for providing efficient air evacuation and circulation in your grow area. Units can displace from 50 to 960 cubic feet per minute (cfm) for any application. Can be operated by timer or thermostat, sold below.



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The Surge Survival System and our new Smoke/Fire Detector Module can protect your lighting system from electrical disturbances and your grow room from smoke and fire damage. Avoid expensive repairs caused by electrical surges, brown-outs, electrical storms and lightning strikes.

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High quality, assembled, QUIET, open ballast; 20' lamp cord; power cord; socket; 110,000 lumen / 12,000 hr. bulb.

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MH 1000 Watt Deluxe System (Reg. \$238) **\$179.95**
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MS 1000 SUPER BULB brightest bulb; 125,000 lumen / 12,000 hrs. add **\$14.00**

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MH 400 Watt Deluxe System (Reg. \$162) **\$134.50**
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MS 400 SUPER BULB-brightest bulb; 40,000 lumen / 20,000 hrs. add **\$10.00**

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Choice of: HORIZONTAL reflector, 48" PARABOLIC, 46", or 22" adjustable Dome. High quality, assembled, QUIET, ventilated ballast box; 20' lamp cord; 5KV socket; 140,000 lumen / 24,000 hrs. bulb.

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Includes: pump, grow & bloom nutrients, timer, pH test kit, Jiffy 7, manual, etc.

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Includes submersible pump, grow & bloom nutrients, timer, manual and more.

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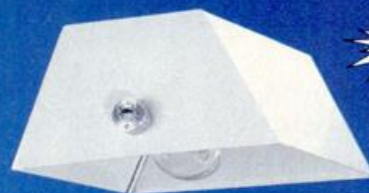
NEW **HPS BULBS** - That work in metal halide systems!
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HORIZONTAL reflector
40% more light than 46"



46" adjustable

Motorized 6' track



48" PARABOLIC
18% more light than 46"



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18" electro-white Dome

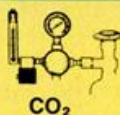
22" adjustable Dome



Heavy duty ballast

HydroproSingle

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CO₂



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If you live in the Northeast and prefer to come into the store, you'll appreciate our new retail outlet at the crossroads of I-95 and the Pennsylvania Turnpike. All our authorized retailers are listed below and in more detail on page 8.

AUTHORIZED RETAILERS



For more product information, see our ads on page 8 & 9.

LETTERS

continued from page 6

nightmare about their own children. Are you trying to win cultural and social acceptance for drug users, or to simply reinforce a popular image we have already suffered from long enough?

May I suggest that you try and keep such self-indulgent pieces of juvenile debasement out of your pages in the future? It is divisive and degrading for me to see my culture portrayed in this fashion. We don't want this and we don't need this. If this article in your magazine was someone's idea of an attempt at humor, then it was cute, but still largely tasteless and stupid. This article was not an example of the entire drug culture of America.

—A new patriot in Illinois

We think you missed the point.

I can't believe you guys actually published those features about partying in your August issue. The reason I purchased a subscription to HIGH TIMES was because I found your magazine to be informative, humorous and intelligently done. Those two features were none of the above. I thought your purpose was to write about the safer drugs. Yet you actually encouraged people to use alcohol, the drug that does the most harm to our society. Don't you fuckers know the Alcohol Board encouraged the criminalization of marijuana in the late '30s when they found that pot smokers tended to consume less alcohol?

—Get stoned, not drunk,
Brandon, Manitoba, Canada

PISSED OFF ABOUT PISS TESTS

Greetings. I would like to see a section in this magazine listing employers that give piss tests. Such a listing could be compiled from many sources, including HIGH TIMES' readers, and would be valuable in helping people like me determine which products and services not to buy and where not to invest or apply for work. May I start this list with Atlantic Richfield Co., Standard Oil, and the Anchorage Times?

—Pissed off,
Anchorage, Alaska



SPECIAL FLOYD ISSUE?

Well it's been quite some time, but Floyd has finally put out a new album, minus Pink, unfortunately (not to mention the lawsuit). HIGH TIMES must dedicate an issue to them. This being the 20th anniversary of the "Summer of Love," what would it be without a "Floyd" issue of the "Times." Am I right?

C'mon, be fearless. Do one. Please.
—Bob Holt,
Springfield, Massachusetts

DOPERS MUST VOTE!

The thing that really pisses me off is dopers who don't vote. If all the potheads in this country would get off their asses and register to vote, write a letter to their congressmen, and then vote, possession and cultivation would be legal in most states in no time at all.

—Burl,
Colorado Springs, Colorado

CONTRA REPORT

Now that the Contra hearings (which were a whitewash television series) are over, where's HIGH TIMES' overview? Or is HIGH TIMES following the leads of the far right and now all is forgiven and

forgotten. Where's your story telling us righteous HIGH TIMERS about Ollie's plan to abolish the Constitution (on this 200th birthday of its origination)? How hypocritical has it gotten when even HIGH TIMES doesn't follow up drug-smuggling Contras?

—Romanyshyn,
Pomona, California

We published a book excerpt on "America's Secret Team" that detailed covert operations in the Reagan era way back in the September issue. And, as this issue goes to press, the Iran/Contra hearings have just ended. Joel Millman's report begins on page 42.

REEFER MADNESS

Recently, there has been an upsurge in anti-marijuana propaganda in the media, especially on television, which I call "Reefer Madness, Part II." some of the effects attributable to marijuana are premature senility, an incidence of lung cancer 40 to 50 percent higher than tobacco smokers, irregular menstrual periods, an increase in fetal loss, stillbirths and infants that tend to be undersized and hyperactive.

Could you please print the latest unbiased scientific findings on the effects of pot, or if you have done so recently, please let me know what issue? Thank you.

—Taylor Holmes,
Lawaii, Hawaii

Turn to page 32 of this issue.

FIGHT FOR YOUR RIGHTS!

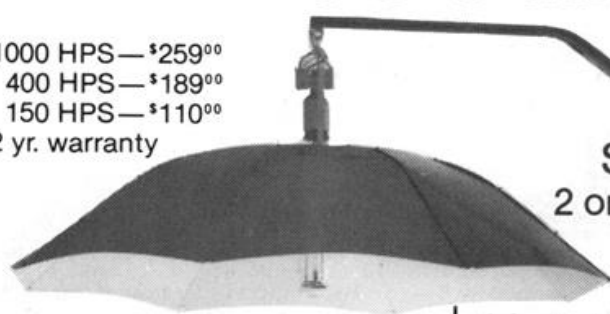
It's time to fight for your rights. Vote, yes, vote these bozos out of office. I'm sick of these assholes who don't even realize their war on drugs hurts innocent people and gives more power to organized crime. I don't know about you, but I do not want to see any more people go to jail for smoking grass. It's fucking crazy and it has to stop. Period. And when people say my vote won't count, bullshit. At last report there are 30 million cannabis users in the U.S. Even if ten percent of us vote, we can turn this thing around. So get out there and vote. And when I'm in that booth, before I pull the lever, I say, "Bend over Koch/Reagan/Meese—it's your turn!"

—A mover and shaker,
Staten Island, New York

continued on page 80 .

DANSCO INDOOR GARDEN CENTERS

1000 HPS—\$259⁰⁰
400 HPS—\$189⁰⁰
150 HPS—\$110⁰⁰
2 yr. warranty



SUN CIRCLE 2 or 3 Light Systems

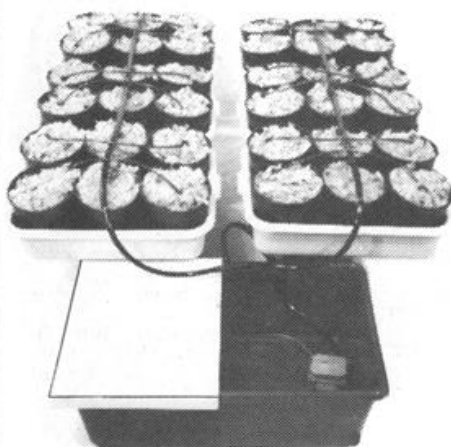
1000 MH—\$199⁰⁰
400 MH—\$149⁰⁰
175 MH—\$110⁰⁰
2 yr. warranty



HYDRO FLO I \$265⁰⁰
Expansion Module \$16⁰⁰

NEW Hydro Flo I includes 6 trays with 36 one gallon Pyramid pots, reservoir, timer, pump, rockwool, 12 week supply of General Hydroponics nutrients with pH Control Kit and filter. Basic system covers 4'x5' area for 6-8 week cycle. Double the size of this system for only \$96 more!

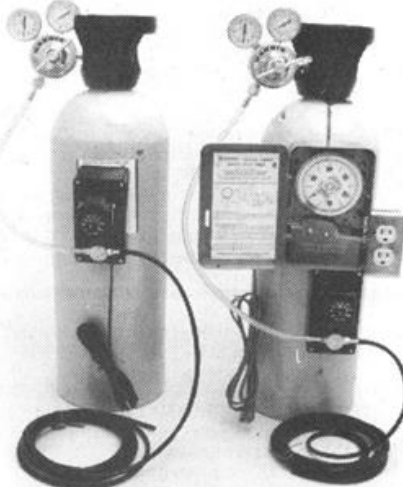
Larger pumps and reservoirs allow us to custom fit these systems to your needs.



CO₂ INJECTION SYSTEM \$179⁰⁰
with Exhaust Control \$279⁰⁰

Basic injection system includes a heavy duty brass body regulator, brass solenoid valve, pre-wired solid state recycle timer, hose and fittings.

Exhaust control and CO₂ injection are synchronized by using a second recycle timer which becomes the primary controller. The system is completely wired with dual outlets for exhaust and intake fans.

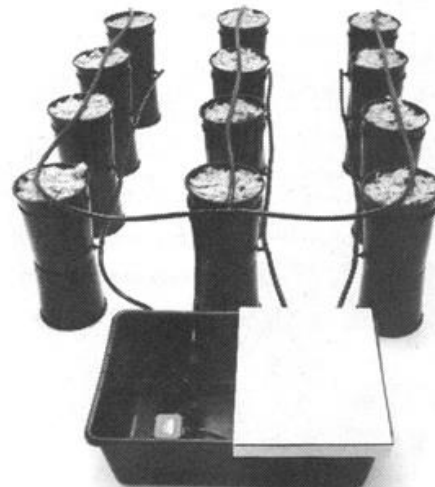


Tanks (not included)

HYDRO CELL II \$250⁰⁰
Expansion Module \$6⁰⁰

Hydro Cell II includes 12 two gallon grow cells with reservoir, timer, pump, rockwool, 12 week supply of General Hydroponics nutrients with pH Control Kit and filter. Recirculating system is easily expandable to 36 cells without increasing pump size. Our 25 gallon reservoir should be used with more than 12 cells.

Larger pumps and reservoirs allow us to custom fit these systems to your needs.



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Mr. Burbank grafted one hundred different types of apple branches onto a single apple tree and each branch bore a completely different fruit the first year for his personal selection. Inventing this grafting technique, he squeezed thousands of years

of research into a few. The results of his work, from potatoes to apples to EVERY domesticated fruit, vegetable or flower, are what we grow today.

The Burbank Potatoe Quadrupled World Production in One Year. Luther Burbank never needed a lot of space. In his lifetime he conducted over one hundred thousand series of experiments and changed the world on less than three acres of land.



DENNIS ROBERT HOAGLAND, 1888-1949, was the inventor of the "four salt Hoagland solution" from which all HYDROPONICS are based. Although a brilliant botanist, Dr. Hoagland was interested in only one thing, the BIO-MASS (size and weight) of the TOMATO produced hydroponically. Working under the scientific assumptions of the early 1900s, Dr. Hoagland's world assumed four things:

A. Plants had a life cycle leading to death. **WE NOW KNOW** plants have a very different way of achieving a life and death cycle than does the human being. Humans are more genetically structured toward their life and death cycle than plants. Plants allow environmental factors to control not only their life and death cycle but their sex as well: Such things as (1) "PHOTO-PERIOD" (length of time under light and dark), (2) "THERMO-PERIOD" (length of time under temperature variation), and most importantly (3) "NUTRIENT PERIOD" (length of time under a given nutrient configuration).

B. Maximum SIZE and WEIGHT before death of (a) root, (b) shoot, (c) fruit—known as the "root to shoot to fruit ratio"—was the absolute goal. **WE NOW KNOW** the "root to shoot to fruit ratio" is a fallacy. There is no such thing. While keeping

the fruit exactly the same size as normal, both the root (below the soil) and the shoot (above the soil) can be minimized. And by reducing the inter-nodal lengths* (distance between the budding sites from an average of 6 inches to less than 1 inch), the number of the normal sized fruit will increase to thousands per plant. (*Footnote: See inter-nodal length graph in "The Garden" brochure.)

C. Plant "lush feeding" of excess nutrients meant nothing. **WE NOW KNOW** plant "lush feeding" kills the plant. The basis of the hydroponic method is that a fresh nutrient supply be pumped in while the used nutrient supply drains out. This allows the plant to absorb excess amounts of calcium. If allowed, the plant will absorb 10 times what it requires of calcium to the exclusion of other more beneficial nutrients like N, P, K, Mg, Na, Cl, etc. Too much calcium and the plant gets GARDENING OF THE ARTERIES and dies after one seasonal growth period.

D. An aqueous (water) based system without a "buffer" (soil having a cation exchange capacity, C.E.C.) was best. **WE NOW KNOW** an aqueous (water) based nutrient solution surrounding the root system without a "buffer" to protect the roots creates a "water root"—a thick, fleshy root that has layered itself with "fat" to protect itself. Nowhere near the amount of root surface area is produced hydroponically (water based) as when the roots are buffered against excess concentrations by a soil medium.

WE NOW KNOW that the soil mediums used by Dr. Hoagland, such as perlite vermiculite, and sand have no buffering action or "CATION EXCHANGE CAPACITY" (C.E.C.). The CATION EXCHANGE CAPACITY of a soil medium is the ability of that medium to ABSORB AND RELEASE a nutrient solution. The cation exchange capacity of the soil medium protects the root system and allows it to produce thousands more root structures, producing thousands more square inches of root surface area. The greater the root surface area, the more efficient the nutrient uptake for faster growth.

The early 1900s did not have the advanced technology of 1986. Equipment for testing nutrient solutions and plant tissue such as the gas-liquid chromatographic assay (GLC), Thin-Layer chromatographic assay (TLC) and sophisticated atomic absorption equipment were not available.

With the aid of the computer since 1951, the medical profession by comparison has advanced in the last 30 years more than in the preceding 2,000 years. If Dennis Robert Hoagland had access to 1986 technology in 1920, he never would have designed the hydroponic system.



JEFFERY JULIAN DEMARCO, 1951- —, is President and founder of PYRAPONIC INDUSTRIES and is the inventor of the methodology known as GROWING PLANTS PYRAPONOMETRICALLY and the PHOTOTRON.

Three things are required to grow plants pyraponometrically: 1. A laboratory grade growth chamber known as the PHOTOTRON. 2. A specific METHODOLOGY for plant growth and manipulation (instructions). 3. A very specific NUTRIENT SUPPLY COMPUTER DESIGNED IN PARTS PER MILLION (PPM) for each individual PHOTOTRON. The exact nutrient calibrations are individually calibrated based upon two soil samples taken from the phototron: one after FORTY-FIVE DAYS of plant growth and one after 90 DAYS of plant growth—ONLY TWO ARE REQUIRED.

Mr. DeMarco's Masters thesis was on the cannabinoid profile of marijuana. After working under both federal and state license in a laboratory at a major university for over two years, and since 1976 has developed the phototron, the methodology and the chemistry to study the internal workings of the plant (not just the SIZE and WEIGHT, but utmostly important to study the MOLECULAR and PHARMACOLOGIC properties of the plant). The research developed in pursuit of Mr. DeMarco's

research PERTAINS TO ANY PLANT.

Pharmacognosy is the study of molecules produced inside plants. This type of study requires very sophisticated equipment like the Gas-Liquid Chromatogram (GLC), Thin-Layer Chromatogram (TLC) and Atomic Absorption.

THC-delta 9, the psychoactive molecule produced by the marijuana plant, is so microscopic that 100,000 molecules fit end to end would sit on the head of a pin. When you're concerned about growing structures so infinitely tiny, what difference does the size of the plant make?

In the disciplines of Botany, Horticulture, Plant Physiology, Soil Chemistry and Floraculture, a "root to shoot to fruit" ratio requires a large root and a large shoot to grow large fruit.

Growing plants Pyraponometrically (by exactly measuring all 21 environmental elements), requires the plant to produce minimal root, minimal shoot (inter-nodal lengths) and maximize the number of budding sites and size of the bud, flower or fruit.

To develop the (A) PHOTOTRON, (B) the CHEMISTRY and (C) the plant manipulation methodology known as GROWING PLANTS PYRAPONOMETRICALLY, the marijuana plant was used because of its unique properties.

The PHOTOTRON was designed to: (1) GROW 6 PLANTS THREE AND ONE-HALF FEET TALL IN 45 DAYS; (2) Duplicate exactly the quality of the plant material the seed came from; (3) RE-FLOWER AND RE-BUD PLANT MATERIAL EVERY 45 DAYS UP TO 9 TIMES PER YEAR; (4) NEVER KILLING THE PLANTS, YEAR AFTER YEAR; (5) BE REMOVED FROM EVERY DAY. (The system is designed for plant removal, not containment); and (6) To produce 6-8 ounces of plant material every 45 days.

Growing Plants Pyraponometrically will revolutionize indoor plant production as we know it today. At PYRAPONIC LABORATORIES, over 25 PHOTOTRONS are used for new experiments. To date, PYRAPONIC LABORATORIES have successfully catalogued 17 varieties of flowering plants, 14 varieties of fruits and vegetables, 8 varieties of tobacco and will force flower roses 365 days per year.

A year, or two years from now, PYRAPONIC INDUSTRIES will mass market the PHOTOTRON through the major retailers, on television and radio. I will look forward to working with you. Thank you very much.

1-312-544- B-U-D-S

Jeffery Julian DeMarco
Jeffery Julian DeMarco
President and Founder Pyraponic Industries

OVER 15,000 PHOTOTRONS SOLD WORLDWIDE - INTRODUCING THE

PHOTOTRON 2

HAWAII VS THE PHOTOTRON

Hello, my name is Jeffery Demarco, President and Founder of PYRAPONIC INDUSTRIES.

My master's thesis is on the cannabinoid profile of marijuana. I tell you this for historical footnote only.

In pursuit of my own master's thesis, I generated the most extensive popular literature library in the world. Then, I generated the most extensive scientific bibliography in the world. I then went into a laboratory under Federal license at a major university in which I designed a laboratory grade growth chamber called the PHOTOTRON.

If you read all of the popular literature: I did. All of the scientific literature: I did. And look at every apparatus that is in High Times, you will find one common denominator. Every system, UP TILL NOW, has attempted to re-create Hawaii. I suggest that when you finally achieve the re-creation of Hawaii, you can do NO BETTER than Hawaii's results. AND WHAT ARE HAWAII'S RESULTS?

In fact, you will grow the plant 6 to 9 months, 6 to 12 feet tall. In fact, you will average a 6-inch internodal length (distance between budding sites). In fact, have a 10% budding ratio at the tops of the plant. In fact, throw away 90% of the plant material (leaves/shake). And in fact, YOU MUST START ALL OVER AGAIN.

Look. The only thing I'm waiting nine months for is a baby, number one. Number two, I do not want a tree in my house. And number three, I am not going to pay the ELECTRIC BILL TO PRODUCE THE SUN somewhere in my closet. Do not let its pretty looks fool you. Do not let its size (3½ feet tall x 18 inches wide) fool you. Do not let its weight at 17 lbs. fool you.

The PHOTOTRON will draw \$4.00 per month in electricity (average). My system is totally different.

In fact, you will grow 6 plants three and one half feet tall in 45 days, guaranteed. You will maintain a one-inch internodal length, guaranteed. That each plant will produce 1,000 budding sites, FROM TOP TO BOTTOM, guaranteed. And there will be 6 plants per individual PHOTOTRON, guaranteed.

And this is the only system in the world where you can re-flower and re-bud the exact same plants every 45 days, up to nine times per year without killing them off. EVER. Then, you may re-flower and re-bud the exact same plants every 45 days up to nine times per year while you remove from the system every single solitary day. Every day (average 6-8 oz. every 45 days). You remove from the PHOTOTRON every single solitary day, beginning on day 20 from seed germination.

I, personally, guarantee and service back the PHOTOTRON, so do not let its technical nature throw you. You will require THREE PAGES OF INSTRUCTIONS ONLY. Because the system is TOTALLY COMPLETE. You will do three things: 1. Select your seed. 2. Plug the system in. 3. Water it.

Then, if you have any questions at all, you may call me direct. Ask your question. Get your answer. And carry on about your business. You cannot fail with my PHOTOTRON. I do not allow any of my PHOTOTRONS to fall below SHOW-CASE. I have personally guaranteed every PHOTOTRON that has ever been sold. And I have never had one returned. I am not starting now.

"If you do not learn more about plant production than you have ever learned before, I will pay you for the call."

Jeffery Julian De Marco



THE PHOTOTRON		NONE	24	YES	YES	YES	YES	YES	YES	YES
Halide Systems		50%	1	NO	NO	NO	NO	NO	NO	NO
LIGHT	LEAF SELF SHADING									
	LINEAR FEET OF LIGHT									
	SPECTRUM ADJUSTABILITY									
	COMPUTER DESIGNED FOR EACH SYSTEM									
NUTRIENTS	GUARANTEE FEMALE SEX									
	NEVER KILLS THE PLANTS									
	ONE INCH INTERNODAL LENGTHS - 1,000 BUDDING SITES PER PLANT									
	RE-FLOWER AND RE-BUD SAME PLANTS EVERY 45 DAYS UP TO 9 TIMES PER YEAR									
CO 2	TOTALLY SELF-SUFFICIENT TO LEAF SATURATION									
	SERVICE HOT LINE FOR QUESTIONS									
SERVICE										

If you do not learn more about plant production than you have ever learned before, we will pay you for the call. CAN YOU AFFORD NOT TO CALL US. Or, send a \$3.00 money order for our brochure, "THE GARDEN-GROWING PLANTS PYRAPONIMENTRICALLY" to:

PYRAPONIC INDUSTRIES, INC., P.O. BOX 1071, MELROSE PARK, IL 60160

* photograph presented from university conducted research for Masters Thesis entitled "Factors Controlling Resin-Production and Plant Growth," pertaining to any plant.

1-312-544-B-U-D-S

PYRAPONIC LABORATORIES: GROWING PLANTS PYRAPONIMETRICALLY

PYRAPONIC LABORATORIES MAINTAINS: (1) The most extensive scientific literature library in the world. (2) The most extensive popular literature in the world. (3) The most extensive library of Data Packages and Soil Analysis selected from over 3,000 **PHOTOTRONS** sold worldwide. (4) On premises, over 25 **PHOTOTRONS** with the capacity of three shelves each so that up to 75 experiments may be ongoing at any one time. Jeffery Julian DeMarco, President and Founder of **PYRAPONIC INDUSTRIES** and **PYRAPONIC LABORATORIES**, maintains his **PHOTOTRONS** for the purpose of killing plants. It is only after experimenting with the parameters of death at **PYRAPONIC LABORATORIES** that the **PHOTOTRON** can perform so miraculously around the world. Said to be the number 1 herbicidal maniac, Mr. DeMarco has full-time laboratory technicians on staff and has the most extensive technical consulting network from Universities around the world. **PYRAPONIC LABORATORIES** maintains the most sophisticated on-premises computerization for data analysis and retrieval in the world. Thousands of experiments have been conducted and thousands more will be ongoing to expand ever further the performance of each **PHOTOTRON**. As **PYRAPONIC LABORATORIES** introduces new methods or nutrient formulations, each **PHOTOTRON** owner is contacted so that every **PHOTOTRON** is upgraded long after it has been purchased. **THE PHOTOTRON IMPROVES MORE AND MORE THE LONGER YOU OWN IT!**

GROWTH PATTERN OF TOMATOES GROWN PYRAPONIMETRICALLY



Young tomato plants in vegetative stage.



Young tomato plants beginning to flower and fruit.



Fruiting less than an inch apart.



"Normal" fruit development with a reduced root-to-shoot ratio.

GROWTH PATTERN OF CUCUMBERS GROWN PYRAPONIMETRICALLY



Typical testing pattern by Pyraponic Laboratories depicting the morphological differences of cucumbers grown under identical conditions except one nutrient level.



Plants nearing top of Phototron in less than 30 days.



Plants filling the Phototron in less than 45 days.



Tremendous flowering and fruiting less than an inch apart.



"Normal" fruit development with a reduced root-to-shoot ratio.

HERBS, VEGETABLES AND FLOWERS GROWN PYRAPONIMETRICALLY



Herbal garden at 65 days of Parsley, Sage, Basil, Oregano, Thyme and Chive.



The hottest jalapa pepper grown anywhere in the world.



Laboratory experiment producing complete root systems on the stem structures of flowering marigolds.



"Normal" marigold flower size produced with reduced root-to-shoot ratio.

GROWTH PATTERNS OF ZINIAS AND SNAPDRAGONS GROWN PYRAPONIMETRICALLY



Day 44: Phototron jammed with flowering zinnias.



Day 52: "Normal" zinia flower size produced with reduced root-to-shoot ratio.



Day 46: Phototron jammed with flowering snapdragons.



Day 58: "Normal" snapdragon flower size produced with reduced root-to-shoot ratio.



J. HOLMSTROM 1987

COKEHEAD COPS TERRORIZE TOWN

"It's frightening. If a cop stopped me in the middle of the night, I wouldn't open my door to him," said a Clarkstown, New York, businesswoman.

"There's almost no supervision in the department," admitted a high-ranking, law-enforcement source. "From midnight to 8:00 AM on the graveyard shift, half the department could be coked up."

"We need a change in the department now," said Clarkstown supervisor Charles Holbrook. "It's gotten beyond control. People in this town are saying, 'What the hell is going on?'"

These are just a few of the sensational charges that were levelled against the police department of Clarkstown in Rockland County in a front-page story in the August 5th edition of the NEW YORK POST. Following a number of

brutality and misconduct charges that have many Clarkstown citizens petrified with fear of their supposed protectors of the law, the POST charged that at least ten percent of the police force is on coke.

The Clarkstown Police Department is the second highest-paid police force in the nation and is under investigation by the FBI. The cop/coke-sniffing connection was exposed when ex-Clarkstown police officer Aldo DelRosario, convicted of selling coke, named 14 policemen as coke users. DelRosario passed a lie detector test.

Three of the cops admitted to having a drug problem and are undergoing counseling. The others were given drug tests. Because cocaine traces can disappear after only two days, and because the tests were given two days after charges were

made, the tests may not prove anything.

Some of the scandals that led to the drug charges include a detective who was arrested and charged with offering to fix women's cases in exchange for sex, and a white lieutenant who got one to three years in the slammer for firing shots at a black shoplifting suspect and then ordering his fellow officers to doctor the reports to make it look like self-defense.

After the POST story broke, the second highest cop on the Clarkstown police force, Captain Ronald Fabiz (who had made a racial slur in a threat to a black judge), resigned. Ervin Murfee, head of the Spring Valley NAACP, hailed the resignation. "It's a grave situation when a police officer of his caliber can threaten a judge and assistant DA," he said. ●

CPMC NIXES COMIX

Taking its cue from the PMRC, a new parents group called Concerned Parents Monitoring Comics (CPMC), has condemned certain comic strips, claiming they promote violence, cruelty to animals, "sick" humor, antisocial behavior and a lack of respect for authority. CPMC spokesman, the Reverend Brian Kirk, stated, "We think comics should present positive situations and not confuse children. A lot of comic strips are a bad influence."

On the CMPC "Top 10 Hit List" are such favorites as "Dennis the Menace," "Hagar the



Horrible," "Doodlesbury," "The Amazing Spiderman," "The Far Side," "Voodoo Banana," "Life in Hell," "Frank and Ernest," "Bloom County," and "The Born Loser."

Apparently "Dennis the Menace" is one of the group's primary targets. "There's a lot of youthful disrespect for authority in the strip," Kirk admonished. "I don't think it's a good influence on children."

Hank Ketchum, Dennis' creator, answered, "Isn't that a pity. Dennis is an all-American kid. He's like all five year olds." ●

VICTORY IN THE WAR FOR DRUGS

The National Federation of Parents for A Drug Free Youth (NFP), Nancy Reagan's pet antidrug group, is on the brink of financial disaster, according to well-placed sources, and may go under at any time.

Problems for the NFP began last December, when president Joyce Nalepka was fired during a hastily called board conference. Apparently Ms. Nalepka was a very bad administrator, and turned off many allies the group was attempting to reach. Soon after Nalepka was canned, Carolyn Burns, the vice-president, also left under mysterious circumstances. Perhaps the biggest indication that the group is in serious trouble came when they cancelled their national conference. The final nail in the coffin might have been when they missed the filing deadline for their lawsuit against the medical use of marijuana, their pet project.

According to NORML director John Gettman, "You can safely say the organization is in disarray, and that there are obvious signs of it." The NFP are, or were one of NORML's biggest opponents in the fight to legalize pot.

A former NORML employee said that the NFP used a phony membership list to increase its status, was a front for the government and was propped up by government funding. The fact that it's falling apart at the seams since funding cutbacks seems to support this claim.

Although it's too early to tell if this is the beginning of a trend against antidrug pressure groups, it's still a good indication that the public-at-large really doesn't care one way or the other if pot is legal or not. ●

FEDERAL INTERFERENCE IN OREGON'S POT VOTE

by Paul Stanford

Oregon voted on November 6, 1986 on whether to allow adults over 18 year of age to grow marijuana for their personal use or not. The outcome of Oregon's Ballot Measure #5 was 74 percent against, and 26 percent in favor. However, the federal government had interfered in the Oregon election to an unprecedented degree. There is suspicion that the entire "War on Drugs" hysteria that our nation's politicians raged about during "Election-Mania 1986" was engineered by the White House to sway the Oregon election.

In the summer of 1987, the National Organization for the Reform of Marijuana Laws has bypassed the Justice Department and gone directly to U.S. Judge Aubrey Robertson, asking the court to give information directly to a grand jury foreman who can decide if the federal government violated the law by actively campaigning in an Oregon election. The Hatch Act prohibits nonelected, federal officials from engaging in partisan politics in their official capacity.

continued on page 24



Football is a lame sport. It disables many of the players who play professionally, and every year, young kids die from playing it. Most NFL players have to be shot up with painkillers to make it on to the field, and many use steroids to build their bodies up into huge slabs of muscle. Yet, if a football player gets caught taking an unauthorized painkiller, like cocaine, the media has a field day.

"From very early on, the Giants knew who on the team was into drugs. They certainly knew I was, because they let me know. I have a friend whose brother is a lawyer who works closely with law enforcement. Through my friend, I had word passed—from the police—they knew what I was doing. I used to get followed—to bars, to parties and from practices and games. Cops and NFL security people I knew would follow me. This wasn't surveillance—and it was a joke.... If they wanted to bust me, fine. But I knew they weren't going to do that, not as long as I was who I was and my game was intact."

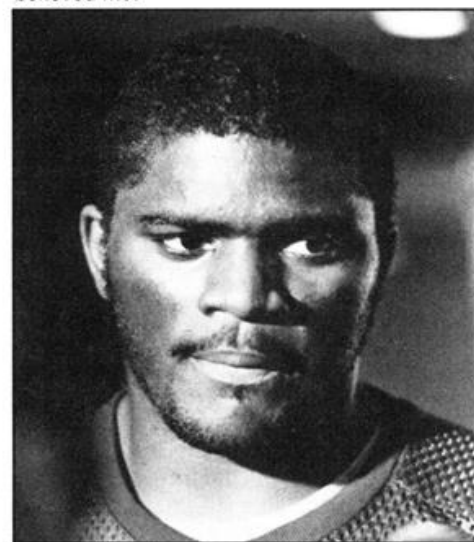
Those words, excerpted in *SPORT* magazine from New York Giant Lawrence Taylor's autobiography, *LT: Living on the Edge*, didn't have the effect Taylor expected. Instead of revealing the hypocrisy of the drug policy in the NFL, it got the general public up in arms about athletes still doing drugs, and it got the media indignant that a role model would take drugs. LT was able to pass mandatory drug tests using teammates' urine, even though he was strung out on crack. This should have proven to the media and the public that mandatory drug tests are a joke. Instead, LT was attacked for "trying to make a buck" off his scandal.

LT criticized the "Just Say No" campaign, writing, "Cocaine was illegal, that was true. I wasn't supposed to be doing it. There was this and that campaign against it, every politician, police chief and Nancy Reagan were against it—but hell, with a guy like me, that almost made it more attractive. Tell me no, and I'll argue and fight you—just to be different."

Baseball's drug policy is just as stupid. Right after the Lawrence Taylor book came out, Kansas City Royal outfielder Lonnie Smith blew the whistle on the selective enforcement of major league baseball's drug policy. "It's not fair," Smith said in a published report. "Look at

Gooden. He doesn't have to pay nothing. Where's the justice? Is it okay just because he's a Cy Young winner? They say they'll suspend him if they catch him one more time, but I never got a second chance. We got guys in this game that have been caught two or three times and nothing's ever happened."

Smith, along with six other major league players, testified in the 1985 drug trial of Philadelphia clubhouse caterer Curtis Strong and received the maximum penalty from Baseball Commissioner Peter Ueberroth. Smith was required to pay \$85,000 to a drug abuse prevention program, perform 100 hours of community service in each of the next two years, and submit to random drug tests for the rest of his major league career. Smith said he paid \$42,000 of his fine, but that no one bothered to tell him when he should pay the rest. He also said he performed his 100 hours of community service, but he didn't think anyone from the commissioner's office bothered to verify it. "I could have lied," Smith said. "I could have said I put in 120 hours or 200 hours. They would have believed me."



Lawrence Taylor's new book sacks the NFL's drug policy.

Smith and Taylor's remarks underline a sad fact. Many businesses use pro sports as a role model for running a company and have instituted mandatory drug testing because of the "drug problem" that is supposedly ravaging society. These business typhoons know there's a drug problem, because they read the sports pages. But the continued failure of pro sports to institute a drug policy that works should have sent the message that mandatory drug testing is not the solution to the "drug problem." As long as warnings from the Lawrence Taylors and Lonnie Smiths go unheeded, the rest of us poor bums are gonna suffer. ●

ROOT OF A POT BUST

A Redmond, Washington postal carrier smelled what he thought was pot in a package he was carrying. He showed it to two other employees and his supervisor. They all agreed that the package smelled like pot, so they brought in the police dog, Sammy, who has

extensive training in the pot-sniffing field. Sammy gave a positive response for marijuana. Postal inspectors got a search warrant from a federal magistrate.

Once the package was opened, they found it contained a child's t-shirt and a plastic bag containing several pieces of ginger root. ●

GENERAL



MAYHEM

Those Fascist Communist Creeps are at it again. In August, New York was the scene of Radio New York International, a pirate radio station that broadcasted cool music. Nothing but. No mindless disco-rot allowed. Radio New York provided alternative freeform rock'n'roll in response to the boring rock stations already in existence.

So the lamebrains in this great government of ours decides, "Oh no. This is decadent. There's no boring music or boring commercials being broadcast. We must put an end to this evil."

But they couldn't do a thing. The ship, The Sarah, was broadcasting in international waters under a Honduran flag.

Unfortunately for Randi Steele, operations manager for the station, he underestimated the stupidity and lowliness of the Federal Communications Commission (FCC). At 5:30 in the morning, armed Coast Guard officials boarded the ship equipped with orders to halt the wicked sinfulness of Radio New York. The crew of The Sarah was arrested, and all of the radio equipment on board was destroyed.

Great. It's really good to know that the government is hard at work preventing someone from playing The Ramones and Country Joe and the Fish.

Who knows what the fuck these right-wing banana brains think? I mean, aren't these the same people who think that Ozzy Osbourne records are leading teenagers to suicide?

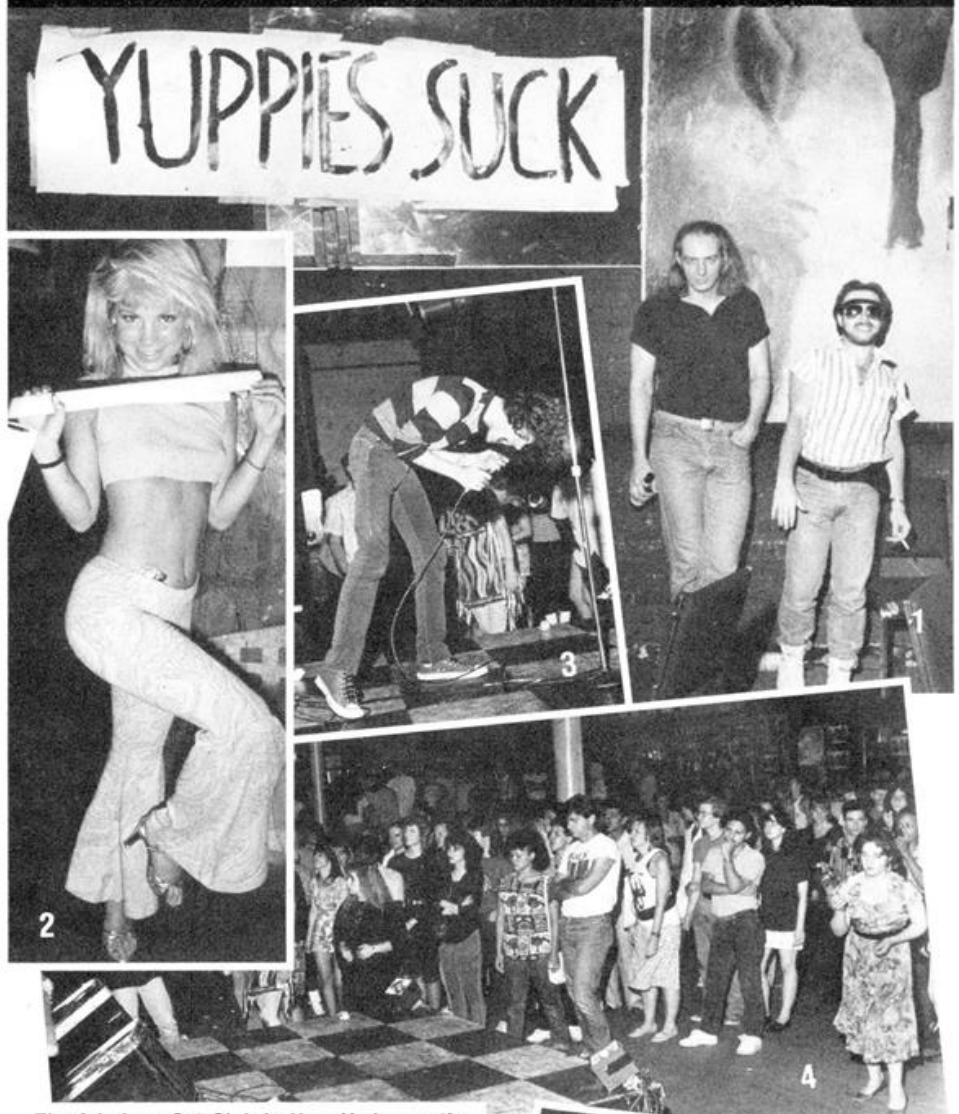
Let me tell you, if there is something that should be plundered off of the airwaves, it would have to be the David Toma show. The man blinks, and he blinks, and he blinks, and he squints, and by the end of the program, all the kids in the audience are blinking and squinting.

What the hell is that?

Radio New York International, who used no profanity, is out the window, but if one good thing is to come out of it, it's that this may set a precedent for other pirate radio stations. Twenty-four hours a day we'd be able to listen to the high-quality rock'n'roll without commercial interruption. After that, who knows? We could have pirate television stations. One station could show Bullwinkle the Moose all day long!

Today, pirate radio; tomorrow, Peabody and Sherman. ●

HIGH TIMES THROWS A PARTY!!!



The fabulous Cat Club in New York was the scene for the latest HIGH TIMES bash, in honor of August's "Wild Party" issue, and the Dawn of the Psychopunkadelic epoch! Everyone stayed late and partied 'til they puked (which was easier than you might think, thanks to the very helpful Cat Club staff!).

1. Design Associate Brian Spaeth (left) attempts development of visualization skills for the purpose of killing yuppies.

2. Donna Taylor, our Go-Go Girl of the Month, looked very smart in her new spring outfit.

3. The Cynics rocked the house!

4. Even though the party took place on a Tuesday night, the joint was packed.

5. Ivy, of the Mind's Eye, and Contributing Editor The General share a tender moment together.

6. Managing Editor John Holmstrom and Party Maniac Bill Yusk share their techniques on how to pick up girls.

A great poster, designed by Flick Ford and the Psychedelic Solution, was printed up to commemorate the event. If you're interested in getting one, write to: Psychedelic Solution, 33 West 8th Street, 2nd floor, New York, NY 10011. ●



QUICK FLASHES



IN CASE YOU MISSED IT— PEANUTS' cartoonist Charles Schulz's mother-in-law was held up for four days in Mexico on suspicion of drug smuggling. She was released last May 27th. Puerto Vallarta officials had refused to let Pam Vanderlinden, 74, out of the airport because they claimed her single-engine plane was on a list of suspicious aircraft compiled by the DEA. "It is so ridiculous, they might as well accuse me of running a brothel," Vanderlinden said.

McROBOCOP—University of Wisconsin researchers developed a \$20,000 prototype robot that would replace teenage labor at fast food restaurants. "These types of mechanized systems are going to be more popular in the fast food industry as the minimum wage goes up and the population that has traditionally worked these jobs—16 to 18 year olds declines," the head of the research team claimed. Robots could start work as soon as 1990, when the fast food industry projects they'll need 30 percent more workers.

ICE CREAM, YOU SCREAM—Jerry Garcia signed a deal with Ben & Jerry's, a Vermont ice cream company, to license "Cherry Garcia," a new flavor of ice cream. Part of the royalties will be paid to the Rex Foundation, a nonprofit organization supported by the Dead.

DIRTY ART—Orlando police were about to burn a "horrible" picture of a naked woman with a bearded man along with a collection of porno, when property manager Phil Edwards examined the signature on the pic. It turned out the offending image was an original 1966 etching by Pablo Picasso, worth between \$2,000 to \$9,500.

RADON DETECTOR—Radon, a naturally occurring gas, can't be detected by humans and is quite capable of killing you. More than one house in five surveyed for the Environmental Protection Agency (EPA) had too much radioactive radon in the air. For a simple, passive charcoal radon detector, send a \$12 check or money order to Radon Project, P.O. Box 90069, Pittsburgh, PA 15224. The federal EPA also publishes a list of state-by-state radon contacts.

FLOG DRUNKS!—That's exactly what Alfred O'Connor, 73, claimed would cure alcoholics. O'Connor, an alcohol counselor in Hastings, MN, would strip drunks naked and whip them. He pleaded guilty to fourth-degree criminal assault after one of the drunks told police about his treatment.

RELIGIOUS FANATIC?—Oliver North's church's members practice faith healings and speaking in tongues. The Reverend Brian Cox, North's pastor at the Church of the Apostles in Fairfax, Virginia, told the NEW YORK POST: "Yes, Ollie North is a congregation member.... The ministry of healing is actively practiced.... Yes, there is speaking in tongues in the congregation."

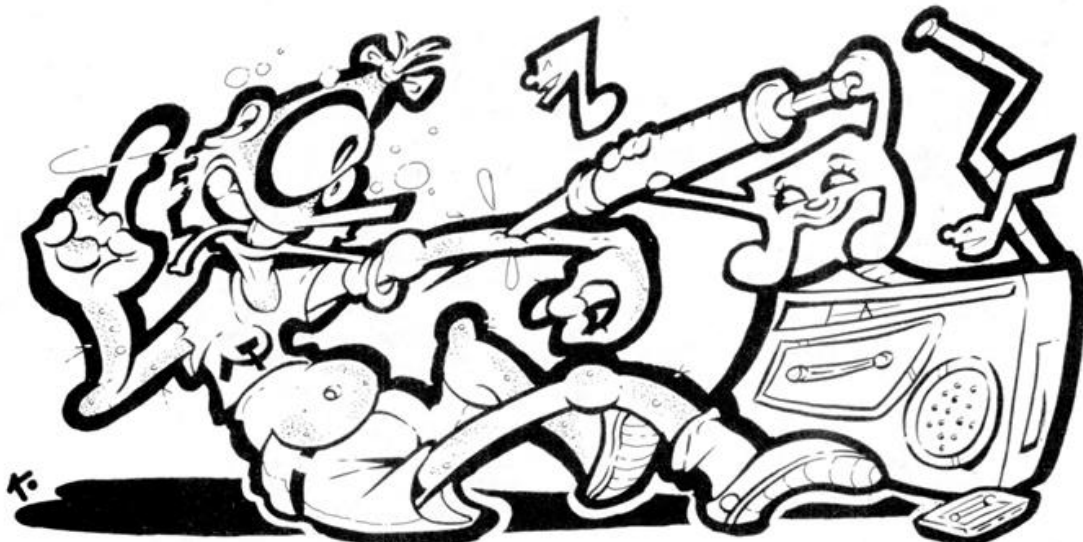
VERY LOUD ROCK'N'ROLL—Vittoria Hohman has filed a lawsuit against Motley Crue, claiming that a live concert by the band in 1985 left her with permanent ear damage. "I think a lot of people have had a problem like mine, but nobody speaks up," she said.

GIANT POT BUST—Police in South Carolina found a pot forest of 104,000 plants, some as tall as 15 feet, in northern Dorchester County. The huge crop covered four fields, complete with irrigation wells and sprinkler systems. State Law Enforcement Division (SLED) Capt. Steve Smith estimated the haul at \$20 million worth of street pot. It took authorities three days to chop down the plants, haul them away, weigh them and destroy them. The fields were discovered by a SLED pilot who was searching for three local residents who had been reported missing.

DRUNK CURE—Swiss drug-development company Hoffman-La Roche claims that they've discovered a drug that instantly sobers up drunks. Company officials said the last thing Hoffman-La Roche wants is to make it easier for people to drink heavily.

POLISH REDNECKS—The country of Poland has flipped out over American country and western music, despite Communist official objections. "Too many people are convinced that this is Ronald Reagan music," said Polish C&W promoter Korneliusz Pacuda. "We are trying to convince them otherwise. It is music for the people, for the worker, the miner, the farmer."

ROCK'N'ROLL ADDICTS—According to a Russian doctor, many rock music fans are addicted. "If you completely isolate them for a week from such music," Dr. G. A. Aminev of Bashkiria University said to the newspaper SOVETSKAYA ROSSIYA, "they feel worse, their irritability rises, their hands start to tremble and their pulse is unstable. Reproducing music of this nature has a very strong narcotic effect."



MILTON KNIGHT



Donna Taylor is half a Tart. A Thompson Tart, that is. The Thompson Tarts, Donna and Leslie, are bringing back classic go-go dancing. "We're the 'do anything' dancers," Donna says, "between psychedelic and futuristic dancing, we've created our own style."

Go-go dancing is her life. "It's my enjoyment and fulfillment, as well as my employment," she says. And appearing in *HIGH TIMES* is the high point of her life. "It really means a lot to me to be Go-Go Girl of the Month." Donna began reading *HIGH TIMES* when she was just thirteen, "with all my hippie friends." She moved from Connecticut to New York City to make it big as a dancer, and attends a private, all-girl Catholic college—in her spare time—where she studies ballet and classical dancing. "It's great to be different from all those girls," Donna smirks. "They have no idea what I do. I can't wait till they see this."

The Tarts met each other a year ago at Chippendale's—where they were doing freestyle jazz dancing—and became friends, roommates and dance partners (look for Donna's partner, Leslie, in a future issue of *HIGH TIMES*.) They've already performed their go-go act at many New York clubs like The World, the Limelight, The Tunnel, 1018, the New Rage club, and they've even hit the New Jersey go-go circuit. One of their goals is to take their act as far as they can, around the country, without having to hire an agent. They're currently working on a demo tape called "Get Smart" (for their single which will be called "Get Smart, Call a Tart").

"I'm very proud, because go-go dancers are out of trend," Donna adds that there's a reason for that. "People get go-go dancing and topless dancing confused," she says. "I won't take off my clothes for anyone."

"Not even *HIGH TIMES*?" we asked.

"Nope!" ●

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OREGON POT VOTE

continued from page 20

However, Michael Spaan, the U.S. attorney for Alaska, where personal-use cultivation is permitted, came to Oregon and actively campaigned—including writing editorials in Oregon's leading newspapers—against the measure, saying that the Alaskan experiment was a failure. Alaskan state officials disagree, and say it has freed law-enforcement officers to concentrate on real criminals. But their federal attorney contradicted them in his campaign in the Oregon election.

Charles Turner, U.S. attorney for Oregon, led the campaign against the initiative on a state-wide level. He made television appearances and participated in numerous debates while campaigning against marijuana's decriminalization. Turner stated on video tape that U.S. Attorney General Edwin Meese had directed him and other regional Justice Department officers to seek the marijuana initiative's defeat.

In May of 1986, Turner used an official letterhead when writing to every law-enforcement agency in the state of Oregon, asking them to urge their employees to "actively oppose" the marijuana initiative. Several sheriffs carried through, and deputies distributed campaign materials opposing the issue while in uniform. The Portland Police, when arresting a supporter of the initiative with 13 plants, confiscated his marijuana initiative pamphlets, t-shirts and hats even before taking the plants. Then they took this political material and displayed it at a news conference before taking the grower to jail. This performance was the lead story on the local news and was brought up throughout the campaign by the issue's opposition. It is clear that Turner's directive was acted upon.

Assistant U.S. Secretary of Agriculture George Dunlop came from Washington, D.C., and publicly campaigned to defeat the Oregon Marijuana Initiative.

When OMI and NORML filed complaints last year, the Department of Justice in Washington, D.C. rejected their claims. John Russell, a spokesman for the department said: "Meese does not see it [Measure 5] as a political issue. He sees it as a law-enforcement issue."

Because of that attitude, the Justice Department has rejected the allegation of Hatch Act violations, Russell said. Meese has written Turner a "very glowing letter commending him for his efforts."

"This is not a state issue," Turner said. "This is an issue that has not only local, but national and international implications."

The 87,000 Oregonian voters who signed the petitions that placed the issue on the ballot might disagree with him. Since the state voters were addressing it, it is a state political issue.

NORML Director John Gettman said recently, "I feel like a chihuahua biting at the heels of this giant." He said that after deep consideration, he had decided that NORML should pursue this investigation. "I know there have been Hatch Act violations. I hope the federal judge initiates an investigation so we can get to the bottom of this." ●

TRANS-HIGH QUOTATIONS MARKET

MAJOR MARKETS

Alton, ME	<i>Indica-sativa</i> hybrids, "very selective connoisseur colas"	lb	1300-1500
	<i>Indica-sativa</i> hybrids, "primo loose interior bud"	lb	1000-1200
	Hybrid clones C#40, "Hardly Legal's best stock"	lb	1500-1700
	Pure <i>indica</i> strains, "commercial colas"	lb	100-1200
	Pure <i>indica</i> strains, "loose interior bud"	lb	850-1000
	Pure <i>indica</i> clones C#40, "good high"	lb	1100-1300
	Pure <i>sativa</i> strains, "commercial colas"	lb	1000-1200
	Pure <i>sativa</i> strains, "loose interior bud"	lb	850-1000
	Pure <i>sativa</i> clones C#40, "good high"	lb	1100-1300
	Pure strain seed stock, "30 seeds to each pound"	—	a gift
	Hawaiian <i>sativas</i> , "the pineapple connection"	lb	1500-1700
	NORML special bud, "funding the resistance and the national cause"	lb	donation
	Gold Thai sticks, "dreamland"	lb	1500 firm!
	Wild hemp, "grows anywhere"	lb	50
	Hand-rolled charas, "for a select few"	oz	250
	Khyber honey oil, "potent"	oz	200
	Burmese opium, "a gift from God"	oz	300
Austin, TX	Skunk	1/4-oz	35
	Killer compact green buds	1/4-oz	25-30
	Good, regular green and brown pot	1/4-oz	25
	Shrooms, "haven't seen much lately"	gm	5
	LSD: Kaleidoscope, "10-12-hour trip, knock your dick in the dirt shit, wow"	one	5
	LSD: Checker-board, Rainbow	one	5
	LSD: Yin-Yang, "too much strychnine, teeth-grinding shit"	one	5
	LSD: Black Cat, "sucks"	one	5
	Cocaine, "if you know the right people, quality can be as much as 75-85%"	gm	90-100
	HIGH TIMES, "reasonable"	1-issue	3.95
Humboldt Co., CA	Skunk #1	lb	2800-3000
	Skunk-Afghani hybrid, "fucking incredible high, top quality"	lb	3000-4000
	XXX hybrid	lb	2600-3100
	William's Wonder,	lb	2800-3000

Send quotations to: THMQ, 211 E. 43rd St., New York, NY 10017. THMQ is intended solely for informational purposes. All entries should be typed or neatly written: If you are unable to compose a legible entry after testing your samples, please wait until you have control of your penmanship before sending us your information. Marijuana is listed by 1/4-ounce, ounce, and pound prices only. Don't bother sending prices for hard drugs. Prices in this issue are current as of August 15th, 1987.

Memphis, TN	R1-new hybrid, psychoactive, best I've seen in a long, long time, "very rare"	lb	4000-4500
	Thai, average high, not too many seeds, "tons of it floating around"	1/4-oz	40-55
	Mexican, from L.A., "it's hard to give away, it's like smoking shitty dirt"	oz	80-90
	Shrooms, "depends on who you know"	gm	2-8
	Mexican sinse, "few seeds"	oz	100
	Colombian brown, "shitty"	1/4-lb	375
	Cocaine, "over-priced"	oz	65-70
		1/4-lb	280-300
		gm	100-110
	Green Mexican, "good high, nice bags of 8-gms"	1/4-oz	30
Pensacola, FL	Killer Mexican, "red-haired, smaller bags, but killer high, lasts"	oz	120
	Commercial brown, "medium high, tastes old"	1/4-lb	250-270
	Jamaican <i>indica/sativa</i> cross, "mind-boggling and ass-kicking"	1/4-oz	35
	Indoor Hawaiian <i>indica</i> bud, "pricy and scarce, but mind-smearing lobotomizer"	lb	270-300
	Hydroponic Skunk #1, "unbelievable, nothing better"	1/4-oz	25
	Hash, Red Leb, "good, but scarce"	oz	250
	Mushrooms, "hard to find, but good"	gm	2600
	LSD: Grateful Dead, "8 hours of good fun"	1/4-oz	5
	LSD: Mickey Mouse, 4-way, "12 hours of better fun, walls move, floors melt"	hit	3-5
	LSD: Zeppelin blotter, "clean and psychedelic"	hit	100
Phoenix, AZ	LSD: liquid drops of Grateful Dead, "unbelievable"	drop	250
	Cocaine,	gm	4-5
		8-ball	100
		1/4-oz	235+
	Green bud, "good quality buzz"	1/4-oz	30
	LSD: Checker-board, "good blotter"	hit	5
		100	200

LSD: Clownface blotter, "good sheet price, but too much strychnine"	hit	5
LSD: Global, "same ol' killer global, clean and intense trips"	100	160
Cocaine, "some of Arizona's best, almost So. Cal.-style rocks, no lie"	1/4-gm	25
Crystal meth, "high quality rocks, likes slivers of glass"	1/4-gm	30
	3 1/2-gms	275

AROUND THE U.S.

Albuquerque, NM	African- <i>indica</i> , "The Rad, The Mean Green, one-hit shit"	oz	200
	Mountain Skunk, "nice buzz"	oz	180-200
	Brown Mexican, "nice buds"	oz	60-100
	Green Mexican, "seeds"	oz	60-100
	Lime-green sinse, "alright on the head"	oz	100-150
	Mushrooms, freeze-dried, "killer, moving walls"	gm	6-10
	Cocaine, "world's finest rocks, direct from I-40"	gm	100-120
Chesnut Ridge, PA	Mexican sinse, homegrown leaves, "free, pleasant buzz"	1/4-lb	450
	Mushrooms	gm	6
	Acid, "lots"	hit	2-5
	Jamaican compressed, "green and wet"	1/4-oz	45
	Jamaican sinse, "green and sticky, one-hit"	1/4-oz	45
	California/Baja weed, "above average and green, great value"	oz	160
		1/2-lb	30
		1/2-lb	700
	Hash, good, real rare, "wish more was around"	gm	10
	LSD: Globes, "real clean"	hit	3.50
Cleveland, OH	LSD: Grateful Dead, Clouds "pretty speedy though"	hit	2.50
	Coke, "real average"	sheet	100
		gm	95-110
	<i>Indica</i> Big Bud, direct from Humboldt, "definitely the real God"	1/4-oz	70
	Chocolate Thai Buds, "the Deep Bake"	oz	250
	Mexican <i>sativa</i> , "mostly male, overpriced"	1/4-oz	55
	Hash, direct from Afghanistan, "the Desert Bake feeling"	1/4-oz	50
	Shrooms, Liberty Top from Washington	gm	10
		oz	60
	LSD: all types; Clowns, Flying Eyeball	gm	7
Danville, CA	LSD: Good Gel, Black Pyramid	oz	95
	Coke, "usually pretty clean"	hit	2-3
		100	40-80
		hit	3-5
		100	80-100
		1/16-oz	80
		oz	1000

Fresno, CA	Thai, real stuff, brown and green, "devastating buzz"	1/4-oz	50-70	New Port Richey, FL	Mushrooms, "as many as you can pick, everywhere"	—	FREE	Humboldt Co. <i>indica</i> , available by special order, "best in the West"	oz	300-325
	Mexican dirtweed, "who wants it"	1/4-oz	15-25		LSD: White Blotter, "damn good"	one	5		lb	4000
	Sinse buds, "San Joaquin Green—good, fresh buds, stoney for the price"	1/4-oz	200		LSD: Musical Note, "very trippy"	one	5-7	Hawaiian sinse sticks, authentic Maui, wrapped around stick with red thread, "excellent, of connoisseur quality"	3-4-gm stick	35
	Cocaine, "fucking blizzard around here, a lot of recon, but not all; prices getting outrageous"	1/4-lb	200-250		California Orange, "grown hydroponically in FL, killer"	oz	150		oz	200-250
Grand Junction, CO	Rock (crack), "same old shit, but what is it"	oz	850-1200	Omaha, NE	Afghani hash weed, "won't smoke in paper"	oz	150	N.J. Skunk #1, Durban/Chitral, William's Wonder, other S.S.S.C. stock, "indoor, best in the East"	oz	200-250
		one	10		Hash, blonde Acid, blotter	gm	8	Mushrooms, hydroponically grown beauties, "good tripping"	1/4-oz	50
Indianapolis, IN	Herb, brown, good, "goofy high"	1/2-oz	60		Cocaine, "burned out"	one sheet	250		oz	100
	Acid: Global, "very clean"	hit	9		Green sinse, "looks and smells like Nebraska moderate buzz"	oz	1100	Cocaine, all-rock	1/4-lb	375
	Coke, "Aspen's Reject"	gm	170	On The Road, MI	One-year-old brown ditchweed, "head-ache and sore-throat buzz"	1/4-oz	35		gm	80
	Red Hair sinse, "buddy, good"	1/4-oz	35		Thai strain, "real good"	1/2-oz	40	Pontchartrain, France	oz	1000
Kansas City, MO	Black Hair Buddha "excellent"	1/4-oz	40		Dark green sinse, "dynamite, real spicy"	1/4-oz	75		1/4-oz	30
	Green with red hairs, more red than green, "seedy but potent, direct from Texas"	lb	1000		All-red sinse buds, "real good"	1/4-oz	135	Brown hash, "from Morocco, good, but makes you drowsy"	2-gms	15
	Red-haired sinse, "very good, few seeds"	1/4-oz	25-35	Orlando, FL	Reddish sinse, "average commercial"	1/4-oz	50		2-gms	15
	Brown, "fair to okay"	oz	100-125		Indica bud, "better bring some of your own"	—	40	Red Lebanese hash, "ok, good magical dirt"	2-gms	15
	Colombian, "good, comes and goes"	lb	1000-1400		Joints, "few and far between, shakey"	one	30	Chambersburg, PA	1/4-oz	55
	Good skunk, "hardly ever much around"	1/4-oz	50-120		LSD, blotter: Globes, Clowns, Gels, Stripes, Album Covers, Escher, White, Cats Under Stars, SK Jelly-fetti, "long strange trips"	ea	2-3		oz	200
	Farm weed, from KS, losing potency, "these people need to get a new strain or go out of business, over-priced"	1/4-oz	32.50-35		Shrooms	gm	60	Indica, via postal from Boston, "intense crystallization, fine"	1/4-oz	40
	Indica, "good but rare"	1/4-oz	40		Opium, crystal, "great"	1/4-oz	25		oz	110
	Homegrown red-haired sinse with seeds, "very potent"	1/4-oz	45-50		Colombian 'merch, "stoney as hell, but barely green"	1/4-oz	30	Pine Mountain Bud, "smells like a forest, very nice, all full buds"	1/4-oz	40
	Black hash, "very rare"	1/4-oz	50		Lime-green, home-grown, "closest to sinse all summer"	1/2-lb	95		oz	30
Mansfield, OH	Shrooms	oz	100-120		Green Colombo brick pot, "red-haired, smells of ammonia, badass"	34-gms	125	Sinse, loose buds, "OK smoke"	1/4-oz	100
	Jamaican <i>sativa</i> , "buzzy"	oz	100	Piscataway, NJ	Guerro Gold, "excellent and stoney"	8-gms	30		1/4-oz	40
	Dirtweed brown, "seedy"	oz	80		Mushrooms, "as much as you can pick"	oz	100	Local brown choke, "not worth the effort"	1/4-oz	60
	Ditchweed Green, "Indiana junk"	oz	50		LSD: Musical Note blotter, "good when fresh, but getting old"	hit	6		1/4-oz	2
	Indoor Green, "stoney big buds, best buy"	oz	160		LSD: Blue Globes, "back to the '60s"	hit	5	Coke, "a white Xmas, mostly rocks, very clean"	gm	80
	Redhair, <i>sativa</i> , "mild buzz"	1/4-oz	40-50		LSD: Miss Piggy blotter, "ditto"	hit	4		1/8-oz	225
Maple Ridge, British Columbia, Canada	Cambodian, "gold and tasty"	1/4-oz	140-160		Cocaine, "ether base, 2- and 3-gm rocks"	gm	175	East Troy, WI	1/4-oz	60
	Skunkweed, hydro, "sticky and deadly"	1/4-oz	60-65		Mexican sinse, green-brown, small <i>sativa</i> buds, "average high"	1/4-oz	55		1/2-oz	75
	Hindu Kush, <i>indica</i> , "loads of resin"	1/4-oz	70-80		Jamaican commercial: long, thin seeded, brown buds; "harsh but stoney"	1/4-lb	325	Hash, Black Afghani, "primo"	gm	9
	Homegrown shake, "good for oil"	oz	200-250		Top-grade Jamaican sinsemilla, brick, dark brown, "Thai-like intensity, very few seeds"	1/4-lb	1050		1/2-oz	110
	Black hash, "moist, very good"	gm	20-40		Vermont <i>sativa</i> , last year's harvest, it's old but still potent, "up-beat high"	oz	170	Hash, Blond Lebanese, "fresh and just as good as the black"	gm	10
	Grass Oil, Iso, "good buzz for the money"	1/4-oz	10-15		Arkansas sinse, grown from Brazilian seeds, gold color, great taste, "2 hits and you're good"	oz	200		one	5
	Mushrooms, psilocybe, "pick your own, they grow wild here"	oz	50-70					Hash brownies, "hold on"	gm	6
	Acid, blotter, "nice trip"	hit	15-25						lb	1000
Monroe County, NY	Cocaine, "everywhere"	gm	140-200					Shrooms, "real blue and tasty"	hit	2
	Homegrown sinse	1/4-oz	60						sheet	50-60
	Mexican commersh, "ugh"	1/4-oz	20					Acid, Album Covers, "Led Zep, yummy"	hit	2-3
	Mexican red sinse, "mmm, good"	1/4-oz	75						sheet	65-75
	Mushrooms, "some good, like always, you must know your supplier"	oz	120					Acid, liquid, "so-so"	1-drop	1-2
	Coke, pink shale	gm	100						1/4-gm	25
Montgomery, AL	Colombian sinse, "the valley weed"	1/4-oz	35					Cocaine, "recompressed, it sucks"	1/4-gm	25
	Commercial sinse	1/4-oz	30						1/4-gm	25
		lb	1250					Crystal meth, "good"	1/4-oz	40
									1/2-oz	80
								Good sinse with red hairs all over the buds, "great deal"	oz	150
									1/4-oz	40
								Dirty brown pot, Colombo	1/2-oz	80
									oz	140
								Black hash	gm	10
									1/4-oz	60
								LSD: Globe, Clown, Checkerboard, White Blotter, "a lot more since the Dead concert"	sheet	150
									gm	100
								Coke, "great, speedy buzz, big rocks"		

IN THE BOONDOCKS



LETTERS

CALIFORNIA

There are plenty of high times here in Fresno, California, even though CAMP is cracking down hard (assholes!). No drought right now, and harvest is soon to be. Problem 'round here is we're knee deep in cocaine with only one straw. Soon, with prices so low, the country will be full of coke fiends, not potheads. More for the rest of us! Trying to shovel out.

B.O.O.

Fresno, California

MISSOURI

As you can see (THMA, August '87), we here in K.C. are doing A-OK. Good pot has been plentiful all this year. No dry spells whatsoever. In fact, this year has been better than the last two or three years. Please print this and, hopefully, HIGH TIMES will get some more media attention (again) in this area. Legalize marijuana. The sooner the better so the world as a whole can take care of more important problems. We, the potsmokers of America, are tired of this prohibition. History repeats itself. Prohibition does not work. You'd think those idiots in office would know a lot of history. Free the weed and free the world. Peace and love forever.

K.C. (no Jones in here)
Kansas City, Missouri

OHIO

I thought I would send you a rundown of the scene at Kent State University. There is still a very liberal, almost anarchistic, movement alive here, and psychedelic use is common among many students. Good, clean LSD and cubensis mushrooms grown in Ohio are pretty much the favorites. There have been several "acid tests" based on the "tests" in San Francisco in the mid and late '60s, and these parties were great experiences with Dead-style music mixed with reggae and blues. (The cops came to one of the tests, but only because of illegal parking.)

The pot situation has changed over the last few years though. Quality is getting constantly better and quantities have picked up. *Indica* and some hybrids have been turning up quite often. There is really a revolution going on in indoor cultivation. People can now see that it shouldn't be a crime to grow some plants for personal use, and they are

starting to pick up cultivation. Even clones are surfacing for those who desire them. There is still, always, the brown weeds and lightly seeded, green, commercial *sativas*, but people really prefer *indica* or its hybrids; especially the really sweet *indica/sativa* hybrids.

I hate to mention it, but coke is here. Most don't use it, and I think local use may be declining. I hope so, because I feel bad for my addict friends and wish they would quit.

I wish **HIGH TIMES** good luck in the war against press restrictions and other types of government repression. We are free, responsible people who should be able to say "No" to Nancy and Ronbo!

Indica

Kent, Ohio

PENNSYLVANIA

I started my plants indoors in April, put them out in May. On June 5th, seven plants were over eight feet tall. A bad storm happened about the second week in July, and I lost a lot of big, beautiful plants. It is now August 5th. I have 5 plants growing over 12 feet, 4 plants over 6 feet, and 15-20 plants under 4 feet. Yeah. It should be an alright year.

RAV

Chesnut Ridge, Pennsylvania

Well, summer is here, and the beginnings of a summer pot drought are cropping up. Pot prices are easing up the ladder again. It's summer! I don't believe it will be as bad as the summer of '86, because we were in a full-tilt drought already at this time last year!

Beaver County, Pennsylvania

FRANCE

Prices in Pontchartrain, France, are the same as everywhere else in France, 100 francs-but quantity is not the same (depends on quality). French people love your magazine!

Marc

Ponchartrain, France

SWITZERLAND

Hi there. July is just about over, and this means that most of the Swiss festivals are over: Leysin Rock (in the Alps!!), Montreux Jazz, Nyon Folk. This is a good time of year for finding good deals. You could find Moroccan hash for \$5 a gram in Nyon. Or 3.5-3.8 grams of excellent Black Afghani for \$25.00. "Nice" little tripa came to \$10.00 (usually from Amsterdam), and Ecstasy is very popular this year in Nyon—one gram for \$50.00!! (Not for me!) By the way, Nyon is a four day concert festival (from reggae to rock) outdoors, Montreux is two and a half weeks in a casino, and Leysin is outdoors for three days in the Alps. For pot, we'll talk about it in ten years. Thanks to your article, I also discovered Negril and Jamaica.

The Little Globe Taster
Switzerland

Wild Hemp Map Seized by Police!

Dig, if you will, this story I clipped out of my local newspaper. Do you (or anyone else for that matter) know where I could obtain one of these maps? Also, could you publish this clipping so a lot of fellow readers could have a laugh like I did when I read the sheriff's name? I mean, just how much more cop can he get?

You know I have this great idea for your harvest issue (or a future issue). Instead of having the usual monthly centerfold of pot, how about having a harvest map (I'm sure you guys could obtain one)? It would be a different, interesting, highly welcomed centerfold!! Then everyone would have their own map, a collector's item; something to hold on to and pass down from generation to generation. How about it guys?

Tokin' Jake

New Bedford, Massachusetts

PRINCETON, Ill.—A decade-old map which sells for \$150 to \$200 and shows where wild marijuana grows has been as difficult to eradicate as the illegal weed it pinpoints.

A dozen people from Michigan have been arrested since midsummer for harvesting the local crop, and many had copies of the map, said Bureau County Sheriff Jack Narczewski.

The maps first surfaced in the mid-1970s among people picking wild marijuana, which grows plentifully throughout Bureau County, the sheriff said. The maps are shaded in light green to indicate small marijuana fields, and dark green to show concentrations of the illegal hemp plant.

Okay readers, audience participation time again. We'd love to print a map that shows the locations of wild hemp fields all across the United States, but we need your help. So gather your compasses, sketchbooks and hiking boots, and explore your local topography. Maps should be at least 8½" x 11" with towns/counties, states and landmarks clearly indicated. We will reward the most extensive and accurate mapmaker with a free subscription to **HIGH TIMES** for one year. Remember: 1) Neatness counts, and 2) we're looking for wild hemp fields only (God is one grower the Feds can't bust!). Send your entries to **HIGH TIMES Maps**, 211 E. 43rd St., Room 2001, New York, NY 10017.

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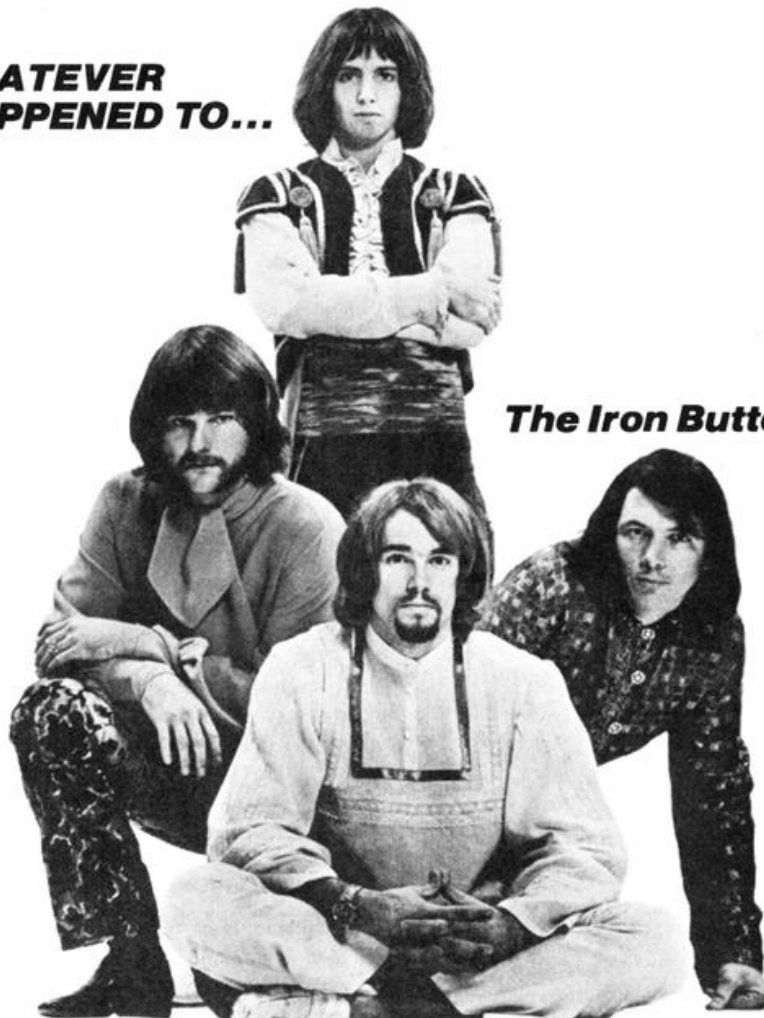
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WHATEVER HAPPENED TO...



The Iron Butterfly?

PHOTOGRAPH COURTESY RICK GAGNON

The Iron Butterfly: (clockwise from top) Erik Keith Brann, Doug Ingle, Ron Bushy, Lee Dorman.

by Steve Bloom

Doug Ingle spent most of last year living with his parents in San Diego, California. That wouldn't be so strange if Ingle wasn't 42 years old and the author of the '60s psychedelic smash "In-A-Gadda-Da-Vida." He's been trying to get his music career back on track, playing solo acoustic guitar gigs at dives like Jim's Hickory Wood Bar-B-Q on El Cajon Boulevard. He says Iron Butterfly still owes Atlantic Records a record. Although he wasn't involved in it, the Butterfly's last album was released in 1975.

"Our music was supposed to be very druggie," says Ingle. "I thought it was a misrepresentation. That's why I wanted out." He insists that he smoked "surprisingly little marijuana and maybe did three-quarters of one tab of acid" while he was with the group. "I didn't like it," Ingle confides. "I'm hyper anyway." But while touring with the Jefferson Airplane in 1968, he did reach this conclusion: "If you're not going to take drugs, touring's a lot of work."

One day during the tour, Ingle got back to his hotel room and found cameras set up. He thought it was a press interview; rather, it was the FDA, trying to squeeze antidrug statements out of rock stars. "They wanted me to say marijuana was bad for the youth of America," he recalls. "I wouldn't say it's good or bad. That's not what they wanted. I don't know if that got me on a blacklist or what, but it wasn't long before things started to go haywire. I know it became

increasingly difficult to get airtime."

"In-A-Gadda-Da-Vida" got airplay in 1968, when it reached number 30 on the music charts. "They told us it would never get played on the radio," Ingle says. "Instead, it made us very rich." But it didn't take long for Ingle and the other band members to lose their footing financially. First came the failed real estate investments, then the audit. The IRS demanded \$280,000 from Ingle; he could offer only \$5,000. "I went from being a millionaire several times over to suddenly being confronted with the prospect of the welfare line."

Ingle worked in construction, gardened, and painted houses. He also collected BMI royalties. In 1983, he and two Butterfly alumni, Lee Dorman and Larry Reinhardt, went back out on tour. They lost \$8,000 and split up again in 1985. The last Ingle heard, Dorman was tending bar somewhere in Orange County, and Reinhardt was working in an L.A. studio. Original Butterfly bassist Jerry Penrod drives a San Diego city bus. Drummer Ron Bushy quit a job with AT&T to reform Iron Butterfly with ex-Blues Image ("Ride Captain Ride") guitarist Mike Pinera. They toured briefly, and now, original guitarist Eric Brown has plans to take his version of Iron Butterfly on the road.

Meanwhile, Ingle checked in to report that he'd won the open-mike contest at Jim's Bar-B-Q. "I'd have been happy to win a cup of coffee," he said, "but they gave me dinner." ●

It's Only Rock'N'Roll But You Like It

HIGH TIMES is best known for its drug information, but our rock coverage has been pretty damn good. Check out some of these HIGH TIMES back issues. You'll see what we're talking about.

Sept. 1976 No. 13 RARE ISSUE

Bob Marley Interview, Peter Tosh on Holy Smokes, The HIGH TIMES Guide to Jamaica, How Kif is Cut, How to Buy a Judge, 8-page Zippy comic, Even Cowgirls Get the Blues (by Tom Robbins).
\$25.00



June 1977 No. 22 LIMITED SUPPLY

Debbie Harry of Blondie (The Marilyn Monroe of Punk Rock), Confessions of a Hashish Eater (by Albert Goldman), Dope in the Cinema (by Joe Kane), The Fabulous Furry Freak Brothers (by Gilbert Shelton).
\$15.00



Jan. 1978 No. 29

Keith Richards Interview, Tina Turner, Lord Buckley, the Clown Prince of Jive (by Albert Goldman), Informer Chic, Lebanon: The Valley of Hashish, Robots You Can Buy, Harley Davidson, Zippy comic.
\$25.00



Nov. 1978 No. 51

Women in Rock—Joan Jett, Debbie Harry, Nancy Wilson, Chaka Khan, Genya Raven; R.D. Laing Interview, Dope in the Comics Part 1, Patent Medicines, Massage, Garbology.
\$5.00



Mar. 1980 No. 55

Frank Zappa Interview, Subliminal Advertising, The Secret Drug Life of Howard Hughes, The Great Smoke-Out, The Acapulco Golden Anthology of Stoned Verse, How to Roll a Marijuana Cigar.
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Nov. 1980 No. 63 SPECIAL MUSIC ISSUE!

SHORT SUPPLY
John Lydon (nee Rotten) Interview, Elvis Presley's Dope Doctor, The Day They Buried Jimi Hendrix, New Wave Party, Notes To You (by Tuli Kuperferburg), Music for the '80s, Wanted: The Real Urban Cowboy.
\$25.00

June 1981 No. 70

Jim Morrison: A Personal Remembrance by Tom Baker, G. Gordon Liddy Interview, Cheech and Chong and Us, Bedtime for Gonzo: Down and Out at the Reagan Inauguration, Grass in the Joint.
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April 1984 No. 104

Rise and Fall of an American Guitar Hero—Michael Bloomfield, Bill Haley, The Daddy of Rock'n'Roll, James Lee and the Elixir of Life, The Parquat Papers, Confessions of a Bruce Lee Fanatic.
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Special Issue: Grateful Dead, High Times Guide to Cartoons, Grave-Digging With Tim Warren, The Amazon: An Endangered Rain Forest, Connoisseur Hash Making, Superior Indoor Growing.
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May 1987 No. 141

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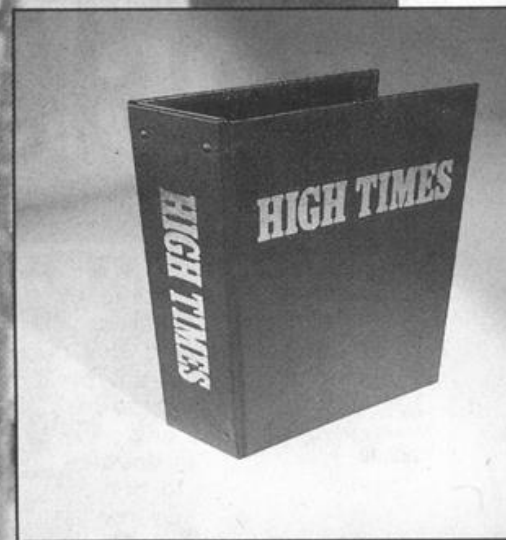
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MARIJUANA



AND

HEALTH

ILLUSTRATIONS
BY
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AN UPDATE OF RESEARCH RESULTS BY PETER GORMAN

ALTHOUGH CANNABIS has been subjected to endless study and clinical analysis, very little can be stated categorically as to its effect on health. The scientific literature is confusing and contradictory, and the marijuana issue polarizes emotions, making moralists of scientists. Since every researcher is aware that his or her work is going to be used somehow by someone in the case for legalizing or not legalizing public consumption, personal and political bias seems to filter through the work.

ACCUMULATION



Of the 420 known components of Cannabis, the major, if not the only, active component is Tetrahydrocannabinol, commonly called THC. This is a group of cannabinoids, sixty-one of which have been identified, many of which

Marijuana and its compounds are not simple drugs. What shows up theoretically doesn't always appear in the lab; what appears in the lab doesn't always appear in clinical practice. Being a psychotropic, its effects can vary widely from user to user. Perhaps it confounds science because it is a psychotropic. Spiritual aids are rarely classifiable.

In a time when designer cocktails can blow you into deep space with a single dose, and crack makes instant

produce some biological activity. Delta 9 THC, the principal active component in natural cannabis, produces almost all of the characteristic effects of grass. It is by far the most often studied of the active isomers found in pot.

The natural cannabinoids are relatively insoluble in water but dissolve in fats and fat solvents and are called lipid-soluble. When smoked, the THC is rapidly absorbed by the blood in the lung; high concentrations of THC there begin to fall rapidly within 30 minutes of smoking. From that point on elimination slows considerably. Roughly 25 percent of the initial THC and its metabolites remain in the body after a week, and traces from a single dose can be found for up to thirty days. In the body, the THC binds to fatty acids where it remains, unchanged, until it passes back into the blood stream for elimination.

Generally, lipid-soluble compounds are completely neutralized when

addicts of nearly everyone who smokes it, the issues of marijuana and its significance to health seem trivial. But here at **HIGH TIMES**, where pot is still king, we thought you should be appraised of developments in the field.

First things first: Nobody's found web-footed babies, tiny testes, atrophied brains, shrunken limbs or 44Ds in the average pot-smoking male's contribution to conception.

But that doesn't mean perpetual intoxication has the green light. So sit down, read this, and get some of the facts.*

bound to fatty acids, but some controversy exists over whether this rule holds true for the psychoactive ingredients of marijuana. There is no medical question about its distribution area—the fat cells of the entire body from the toes to the brain—or that it remains unchanged while bound there. The questions are what effect the THC has on the user while it waits for elimination, and whether the repeated administration of even small doses may lead to an accumulation of drug which is potentially higher than levels reached at any time after a single dose.

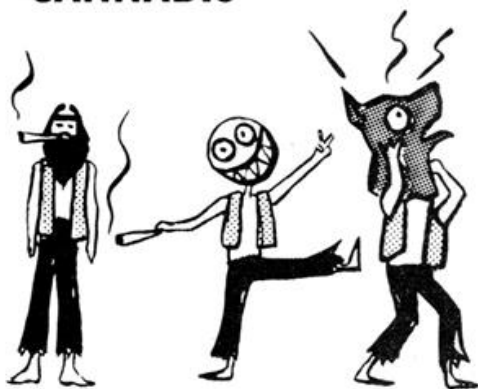
On one side of the argument, many researchers feel that general toxicity studies have shown marijuana to be one of the safest drugs ever studied for

*NOTE: Research studies involving humans referred to in this report—with the exception of a section on pregnancy and birth—deal with adults. As with all drugs, and specifically intoxicants, researchers across the board recommend against the use of pot by pre-pubescent and pubescent children.

cumulative effects. Another group feels that since so much is not understood about how the THC acts on the brain, it is possible that minute doses of active THC released back into the system may have a continued toxic effect. Reese T. Jones of the University of California at San Francisco said in recent correspondence that "When you say active, right now, that's an unanswerable question... it's in the brain, there's no question of that, but the activity issue, that depends on whom you talk to."

The problem encountered with the issue of accumulation is typical of issues involving marijuana. There is continued debate over long-term effects to both the chronic and casual user. Obviously, in areas of concern, researchers find the chronic user at more risk. Few studies have shown serious concern regarding long-term effects for the light smokers, even among antagonists to the drug.

ACUTE EFFECTS OF CANNABIS



Little controversy exists in discussion of the short-term or acute effects of smoking marijuana or hashish. These occur while high levels of THC are still in the metabolism. These short-term effects can include an increased pulse rate, giddiness, euphoria, hallucinations, reddening of the eyes, dryness of the mouth, sudden hunger, heightened sensory perception, sedation and conceptual changes. A number of these—in combination—are what is called "getting high."

Along with these generally pleasant changes, the user may also experience nausea, anxiety, paranoia, changes in blood pressure and body temperature, disorientation, confused states, short-term memory loss, temporary alteration of motor skills, changes in depth perception, poor attention span and depression. Some researchers have found that smoking grass inhibits

verbal and analytical skills in users while facilitating nonverbal tasks.

Additionally, marijuana, when coupled with other substances, can have an addictive effect. Alcohol and marijuana in combination can render the user dysfunctional; marijuana used in combination with barbituates can prolong the effect of the barbituate, and, in extreme cases (at least theoretically), cause nonlethal doses of barbituate to become lethal doses.

In general, researchers agree that these effects, both pleasant and unpleasant, are temporary. Even acute anxiety or paranoid reactions can be managed with verbal reassurance. A study of 700,000 hospital admissions in the United States in 1971 revealed that only ten of those were for acute cannabis reaction.

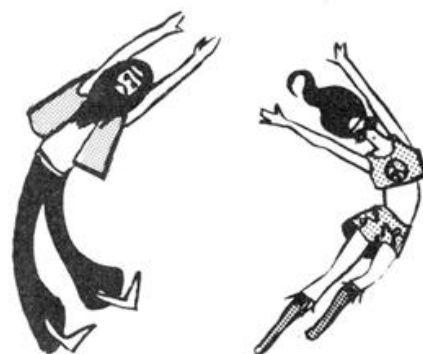


Certain tasks requiring fine motor skills—driving a vehicle or operating certain types of machinery and equipment—should not be undertaken while under the influence of marijuana. How long the driver will be impaired remains under debate, but even the most liberal thinkers acknowledge that driving should not be undertaken for three to four hours after smoking. The other end of the spectrum puts it at more like sixteen hours—depending on the individual, the quantity and quality of cannabis smoked and other factors.

In certain circumstances—people taking medication which cannabis might interfere with—individuals may have a short-term reaction deleterious to their health, and judgment should be exercised in the use of cannabis.

The effects mentioned above are considered to be of short duration and depend on the potency of the cannabis, the setting, and the user's orientation and state of mind at time of use. Generally, some of the negative—and, sorry to say, the positive as well—effects are expected to be more pronounced in the newer user rather than in the more experienced individual.

LONG-TERM EFFECTS OF CANNABIS USE



PULMONARY EFFECTS: The lungs are the natural target for the harmful effects of smoked material, and among chronic smokers, chronic bronchitis and mild airway constriction occur regularly. There are several known carcinogens in marijuana smoke and certainly more tar—though no nicotine—and incidental particulates than in tobacco smoke. But as yet there has not been a single instance of human lung cancer attributable solely to marijuana use.

The bronchial problems mentioned are somewhat more related to the act of smoking than they are to the active ingredients in grass, and the use of a water pipe can eliminate most of them.

Theoretical problems with fungi found in marijuana—*Aspergillus*, among others—are repeatedly mentioned in the literature. However, there has only been one official case of actual *Aspergillus* poisoning, and that was in a man whose immune function was depressed as a result of intensive chemotherapy treatments. Fungi can be killed by cooking the marijuana before use (100°C for 30 minutes), though in most healthy people this has not shown itself to be a problem. Marijuana smoke has been shown to inhibit pulmonary antibacterial defense systems, but the toxin involved is reportedly related to the smoke itself and not to any psychoactive component in the drug.

I recently spoke with Dr. Tashkin of UCLA, one of the leading pulmonary specialists in the country, and asked him what the real risks—long-term—to the smoker were. "We've found changes in the airways of marijuana smokers which are also found in the airways of cigarette smokers who go on to develop cancer... it doesn't mean they will develop cancer. That hasn't been shown to have happened yet, it's just a marker of increased

risk we've found in smokers using two or more joints a day for more than five years. The smoking of marijuana can lead to pulmonary complications, and that really is the bottom line. Of course, to find out the real risk we're going to have to rely on doctors asking their patients as to whether or not they smoke. We'll have to record that information, and that information will have to be made available to pathologists, and they will have to study the results."



HEART AND CARDIOVASCULAR EFFECTS: Smoking marijuana clearly changes heart function. The most common and important of which is through tachycardia—a speeding up of the heart rate that is sometimes accompanied by temporary changes in blood pressure—and, occasionally, by ventricular fibrillation—a condition where ventricle contractions become uncoordinated.

These effects have been shown to be temporary and reversible and not problematic in healthy individuals. In certain circumstances, however, they could lead to serious complications—specifically in people with heart problems or angina pectoris. Those taking medication for the heart are recommended to avoid smoking cannabis, since the THC may interfere with those medications.

The side effects of the speeding up of the heart rate (which also occur with tobacco smoking, though not to as great a degree) can include a temporary change in body temperature, dizziness on standing and a diminished capacity for exercise.

There is as yet no evidence of heart disease caused by marijuana or any evidence of permanent effects to the hearts of healthy individuals, though

Reese T. Jones cautions that, "The lessons learned from chronic tobacco use are worth considering [since] THC seems to have a far more profound effect on the cardiovascular system than does nicotine."

HORMONAL EFFECTS: Effects from both acute and chronic exposure to cannabis have been shown in laboratory animals. In male animals, the primary effects have been a lower sperm production and changes in the serum testosterone levels in the blood. In female animals, changes include disrupted menstrual cycles and a decrease in the production of prolactin, a hormone which aids in the production of breast milk.

In humans, there appears to be a modest reversible suppressive effect on sperm production, which some studies debate, noting that tolerance quickly develops and sperm production rises again (even during smoking) with no evidence that this has a deleterious effect on male fertility. Female hormonal study, at best, indicates a slight disruption of menstrual cycles. Some researchers are quick to point out that this disruption would have an obvious effect on those trying to conceive on particular days, while others don't feel this is a particularly negative effect.

Some scientists feel that for men with marginal procreative or sexual functions, even a slight lowering of their testosterone levels might cause problems—though studies have failed to show this clinically.

Scientists across the board are concerned with the possible problems connected with prepubescent, chronic smokers and what effect even minor and reversible hormonal changes would have on their development. As yet there is little evidence to suggest any great problems in this area, but there is general agreement that this situation requires further study.

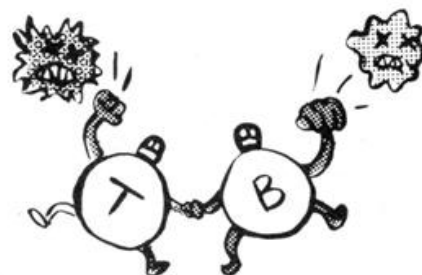


CELL AND CHROMOSOME EFFECTS: The numbers and kinds of chromosomes—structures in a cell nucleus which contain and transmit genetic information carried by DNA—are characteristic for a given species. Structural variation and changes in the numbers of chromosomes may be evidence of genetic damage due to drugs or other chemical agents. While there have been studies which indicate that tar found in marijuana smoke can

inhibit cell division in certain types of cells, there have been fairly conclusive studies made which indicate that marijuana does not break chromosomes.

Studies that do indicate chromosomes have either been conducted on lab animals—using doses of THC which were larger than humans could conceivably take—or on multiple drug abusers, and those results "may be due to other factors associated with a life of heavy drug use."

THE RELMAN REPORT—a government-sponsored study of marijuana and health conducted in 1980 to 1981 to review all then-existing marijuana research—concludes that "the weight of evidence from human studies indicates that neither marijuana nor THC causes chromosome damage."



THE IMMUNE SYSTEM: The immune system functions in protecting the body against viruses, bacteria, poisons and other infections. It also plays a major role in preventing the growth and dissemination of cancerous cells. The primary components in the system are two active white blood cells (T-cell and B-cell) and macrophages. B-cells identify specific body enemies and produce antibodies to chemically disarm them. T-cells consume viruses, poisons and cancerous cells. The primary job of macrophages is to stop anything breathed in that could cause disease by absorbing it. Both the T-cell and macrophages grow as they consume, and they divide when they have reached their size limit, creating more of themselves.

Any inhibition of these functions, either in identification, consumption or creation of antibodies to fight off the invading agents, is called an immuno-suppressive effect. The body simply isn't handling the problem.

Some early studies in this area indicated that the T-cell's ability to divide was inhibited by THC, though these studies were conducted only in the laboratory. Later studies have shown a weak immuno-suppressive effect in macrophages, though these

effects varied from subject to subject and were regarded as transitory. That is, shortly after smoking, while there was a high concentration of THC in the body, there was a measurable change; the response returned to normal as THC levels dropped.

More recent studies, conducted by Munson and Fehr, conclude that marijuana reduces resistance to infection but acknowledged that this change would vary from person to person and would most often be minor: "It is likely that we would now be aware of profound changes in the resistance of humans if they occurred frequently. But even minor effects would be significant among those with immune disorders or with immunity otherwise suppressed."

On this last count, there is some concern from several quarters. Even minor changes in immune response have to be looked at critically in the light of the current AIDS epidemic, *not as a cause by any stretch of the imagination*, but simply because it is an area which has not yet been researched.

This is not a cause of concern for the user. It is only mentioned because a number of scientists feel that any drug which relates, even mildly, to the immuno-suppressive response cries out for research in view of this new problem.

PREGNANCY AND OFFSPRING



Early reports which tied cannabis use to birth defects in humans on the grand scale—webbed feet, retardation, and so on—have been discounted by even the most anti-cannabis scientists. Those studies that reported these findings generally dealt with lower-economic groups who practiced poor nutrition, drank heavily and were often multiple drug abusers. Even then, such major birth defects showed up with such rarity that few people took them seriously.

The reality is that while there are some effects to the offspring of both

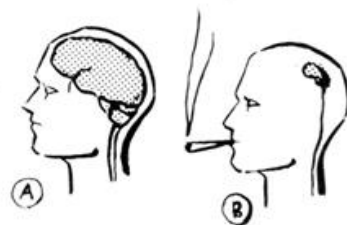
humans and animals from cannabis use—generally from cannabis use—generally from *pure* THC—the changes are not very dramatic. Saraseth, Carol Grace Smith, Susan Dalterio and Peter Fried, among others, have found unhealthy changes in offspring of lab animals exposed to THC, but most of these involved short-term nervous disorders, aberrant visual attention spans, lighter birth weights and shorter gestation periods. Radical doses of THC have had greater effects, but only in lab animals and these did not correspond with human test results. Of the above mentioned researches, all but Dalterio agreed that offspring whose mothers were exposed to cannabis or THC caught up with nonexposed offspring within thirty days after birth. Dalterio's work deals with second generation mice, and her early results—roundly disputed—suggest that fertility and hormonal production can be affected in those second generational lab mice.



Dr. Peter Fried, a leading researcher in the field who works with human offspring, says, "There are no major effects to offspring when marijuana is used in conjunction with good nutrition during pregnancy. Marijuana has been used by middle-class women very comfortably during pregnancy since the '60s. If there were any major effects they would have been noticed by now. But that doesn't mean that there aren't subtle effects that might be important." Those effects include "a significant increase in symptoms associated with nervous symptom abnormalities which might indicate a mild form of withdrawal... the optimum condition is for a pregnant woman not to use any exogenous agents at all."

Because THC is known to cross the placenta and to be found in breast milk, and because the effects—even minor effects—are not fully understood, this sentiment is generally echoed in the scientific community; use of cannabis by pregnant women is not recommended.

THE BRAIN



Despite two outlandish studies published in the 1970s which concluded that marijuana caused brain atrophy, researchers universally agree that there is no evidence that cannabis causes structural changes in the brain. On the other hand, several teams of researchers have found changes in the brain's electrical activity in human beings during the most active periods of THC action. These changes diminish as the effects of the "high" wear off.

More to the point are the chemical changes marijuana causes, since these changes are what produce the "high," and the issue of accumulation. Most researchers agree that while THC in minute doses remains in the brain for some time after smoking, it is neutralized. New studies have found traces of subcortical activity, presumably related to marijuana use and isolated to that use, long after the "high" has worn off.

Reese T. Jones had written in 1980, after much study, that "the weight of evidence [indicates] that lasting neuro-physiological impairments are possibly, but not inevitably, associated with some undetermined level of heavy, prolonged marijuana use." Dr. Jones was one of the members of the Relman Committee, and when I spoke with him recently about his 1980 findings he said, "The conclusion of the National Academy of Science group—the Relman Report—was that not all the answers were known but that one should not be complacent and assume you're gonna get away scot-free. They were a very good group of researchers, most of whom had no axe to grind about marijuana. It's a very complicated drug, or series of drugs and there's so much we don't know."

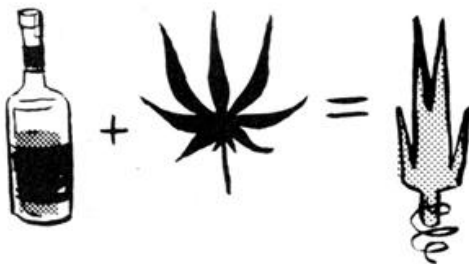
Several other scientists I spoke with felt the same way. The brain is very complicated, and the effect of cannabis on it is not fully understood. Subtle changes invisible to testing methods may occur. Gilekson, making a humorous report to a Senate subcommittee in 1980, concluded, "Marijuana may not lead to death, but

it might reduce the chronic smoker to mediocrity."

Still others are not convinced that there is any evidence to support the idea of accumulated toxicity or any other effects which are not entirely reversible once smoking stops. But even they would like to see more research money spent to study long-term effects to chronic, heavy smokers, and almost no one is willing to commit themselves to saying there are absolutely *no* lasting effects, because so much remains to be understood about how the brain really works.

No scientist of repute suggested any real hazards in this regard for the casual user.

PATTERNS AND BEHAVIORAL SYNDROMES



Although there is no evidence to suggest that a specific cannabis psychosis exists, there has been enough clinical evidence of negative behavioral patterns among chronic cannabis users for researchers to recognize the interaction of the drug with previously existing problems. In other words, psychological problems and psychiatric illnesses, while not necessarily caused by chronic smoking, can certainly be worsened by it, according to Rick Seymour, of the Haight-Ashbury Drug Abuse Clinic. These "long-term problems or situation—where marijuana is being used to self-medicate underlying psychological problems—call for appropriate counseling by health professionals."

Frequently discussed behavioral patterns among chronic smokers include:

- **Antimotivational Syndrome:** Characterized by apathy, loss of ambition, loss of effectiveness, diminished ability to carry out long-term plans, difficulty in concentrating and a decline in school and work performance. This syndrome may be seen in nonsmokers of marijuana, and even chronic use is not always associated with loss of motivation, but people experiencing these symptoms will, again according to Seymour,

"Probably worsen the situation by taking any sedating drug." Biologically, this syndrome does not exist, but, as Hollister, a reputable researcher notes: "One cannot help being impressed by the fact that many promising youngsters change their goals in life drastically after entering the illicit drug culture, usually by way of cannabis. With cannabis, as with most other pleasures, moderation is the key word." The problem, for the user, is to determine the difference between use and abuse.

- **Toxic Delirium:** Also known as acute brain syndrome, it is characterized by a clouding of consciousness manifested by impairment of ability to sustain attention to a goal or stimuli, changes in sleep patterns and sustained disorientation. These symptoms are found only occasionally, and then usually in long-term heavy users. Reese T. Jones has said, "Almost anyone given the right dose in the right setting can be made to exhibit a set of schizophrenic-like symptoms." Symptoms disappear with abstinence, provided there is no additional psychological or physiological problem.
- **Effects on Pre-existing Mental Illness:** Clinical, not biological, evidence suggests that in some cases—particularly patients with mood disorders and schizophrenia—may be negatively affected by smoking grass.
- **Flashback Syndrome:** While there is no biological evidence yet of a flashback syndrome, many researchers feel that there is a kind of *deja vu*—often relating to acute anxiety—that many marijuana users encounter. Mike Wizner of the Beverly Hills Detox Center, says he regularly treats people for these negative feelings, which in some cases can be quite severe whether chemically induced or not.
- **Affects on Aggression:** With the exception of the occasional rare individual with some special disposition to violence, every experiment conducted with cannabis has shown a decrease in aggression in the user.



ADDICTION:

Most researchers agree that addiction, literal and physiological, to cannabis can occur after an unspecified, long-term, heavy exposure to the drug. But withdrawal symptoms are very mild—slight depression, anxiety, possible nausea—and of very short duration—several days or less. Fear of withdrawal is not seen as a reason for continuing use. On the other hand, "You have the same sort of psychological syndromes you do with any other addiction," according to Dr. Norman Zinberg of Harvard Medical School's Department of Psychiatry.

Quantities of cannabis needed to attain addiction are nonspecific (varying from person to person) but because they are known to be high, the casual user does not run the risk of physical addiction.

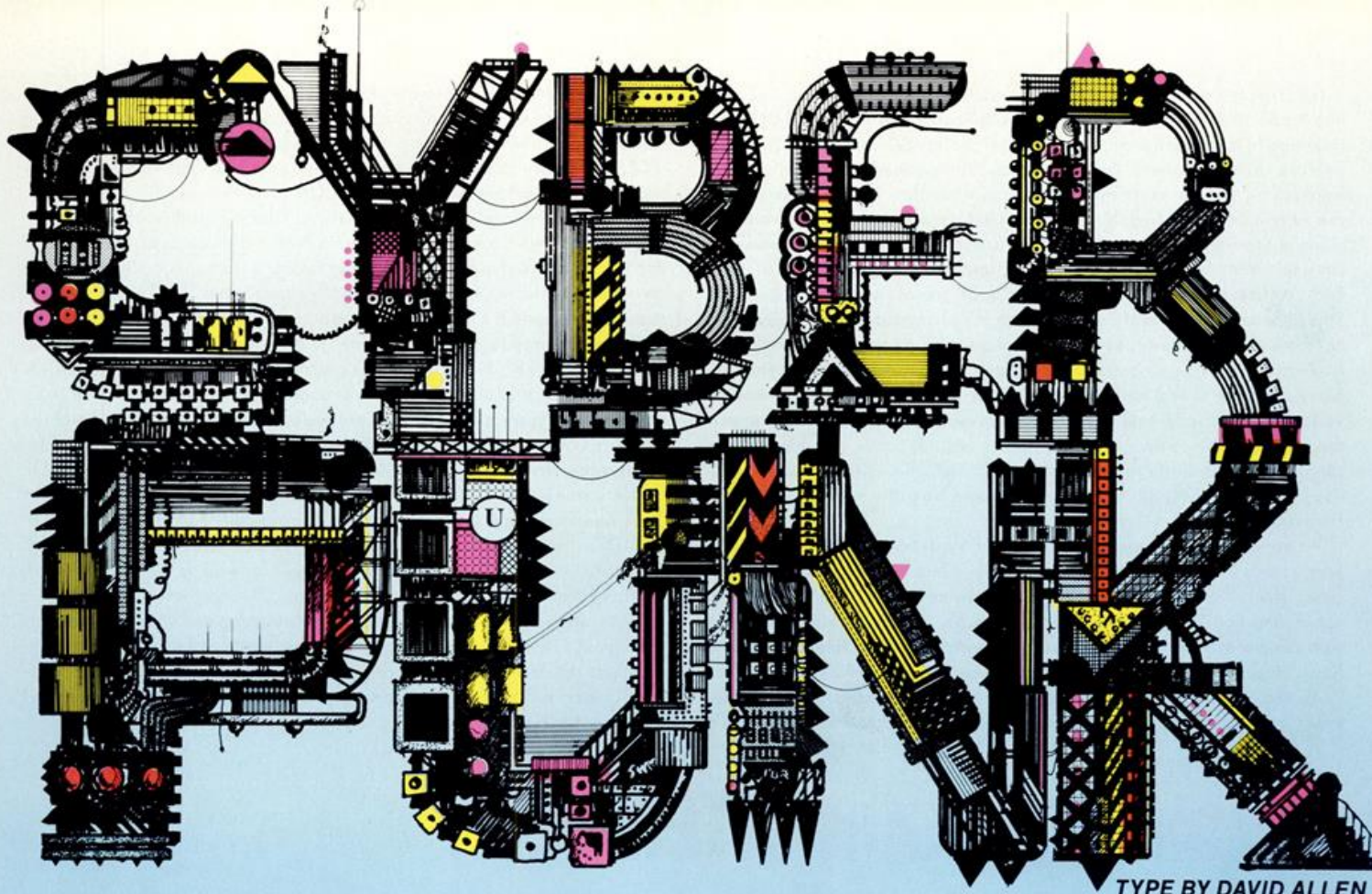
STEPPING STONE SYNDROME:

Marijuana use does not physically lead to the use of, or experimentation with, any other substances. Moreover, government studies indicate that changes in an individual's behavior start before drug use. On the other hand, clinical studies indicate that experimentation with one drug seems to open a gate for experimentation with others. According to the National Institute for Drug Abuse, those people who are going to have drug problems generally begin by drinking alcohol and smoking cigarettes, becoming addicted to one or the other of these substances, and then experiment with speed or cocaine.

CANNABIS AND THE DRUG ADDICT

Rick Seymour has been working for years with people who have drug related problems and has written extensively for a number of journals and magazines, including **HIGH TIMES**. When asked whether marijuana is harmful to addicts trying to stay clean, he says, "People who are getting off alcohol or other drugs are in a position of having to deal very carefully with what they are doing with their lives, from their diet to their behavior and so on. What happens when they smoke is that grass creates a sense of euphoria that reminds them of how nice it was to be loaded and there it goes. It's as simple as that. There could even be a physiological factor we don't know about... [smoking] does seem to contribute to relapses among addicted people."

continued on page 68



TYPE BY DAVID ALLEN

BY LOU STATHIS

CYBERPUNK, like most other labels, is a meaningless piece of conceptual B.O. (i.e., the guy who smells it gets to name it). Surgically created several seasons back by writer/editor/funnyman Gardner Dozois, the term was intended to monikerize the work of science-fiction hotshot William Gibson, whose audacious first novel of computer piracy, *NEUROMANCER*, was happily snorting up every award in the field. Natch, the handle stuck, and nowadays it gets trotted out whenever some young schmuck punches his way into a leather jacket and strolls down the SF pike. The merest whisper of this dreaded "C-word" now gives Gibson stomach cramps, though Cyberpunk writer and Minister of Propaganda Bruce Sterling still offers an equivocal embrace, mainly for its promotional value. I mean, loudmouth writers are like Shi'ite terrorists: one of 'em is just a nuisance, but a whole batch of the buggers babbling in unison is a movement, and we media swine sure do love movements.

Anyway, after some dutiful hogshit shovelling and ingestion of several core CP texts, one discovers that, hey!, maybe there's something going on here after all. Call it a new attitude, mindset, or

just a bogus pose—whatever, it's one refreshingly rank breeze blowing through the endlessly recirculated stale-air atmosphere of *semper fi sci-fi*.

It's kind of like the state of rock'n'roll in 1975, when the ground was ripe for the hun-plundering led by Malcolm McLaren and the Sex Pistols. Likewise, science fiction was ready for the raiding party of the neotraditionalist cyberpunks in the early eighties; guys who would strip the SF impulse down to its essentials and retool it for more effective operation (unlike the village burners of the sixties SF "new wave," who tried to trample everything in sight). Strategically, the procedure goes like this: First, crank up the intensity level to kick-ass volume, then abuse the chromosomal structure with brain-twisting doses of weird techno-voodoo chemical extracts, and finally, route the whole howling mess through a neural network of pirated biochips. The end result is still recognizably science fiction, but like any evolutionary leap, it has caused a strange, magical transformation—one that perhaps could've been anticipated but wasn't predicted. Basically, the "literature of the future" has been yanked out of the past with the crowbar of the present.

Isolating the precise essence of cyberpunk is a tricky business, because like the SF virus itself, it's continually reduplicating itself from the DNA up, changing to meet each new environmental challenge. Everybody's got their own two cents to throw in. Gibson talks about the generation of writers who were taking William Burroughs for granted when they were thirteen (and if you've read *NAKED LUNCH*, you know what a scary idea that is); while CP pioneer Sterling points to the bewildering transformations—mental and physical—that technology exerts on us; and goofball information theorist Rudy Rucker measures the data-density in CP prose. Founding zygote John Shirley summed it up best, with: "I think it's characterized by writers who have a global worldview; who write with an attitude informed by information arising from the so-called 'underground'; who write with a certain intensity of tone that's sometimes taken for punk; who are influenced by writers outside the SF genre, and by certain aspects of rock culture (the better aspects); who realize that anti-heroes are not really anti-heroic; who search for real honesty in characterization; and who write with a perspective of a new, constantly transforming, global flux of worldwide media/information/imagery."

Whatever. I'll let the ideologues duke out the definitions; the work, for its part, stands by itself. Gibson's small output—two novels and a handful of spoon-sizers—is a complex mash of Burroughsian lowlife, Chandlerian metaphor, and Lou Reed imagery. Both novels are deeply flawed, overdosed with sentiment and macho posing, but show a remarkable talent still in the larval stage. He's only just warming up. Bruce Sterling's 1980 *THE ARTIFICIAL KID* was his warm-up—perhaps the first cyberpunk novel published. His more recent *SCHISMATRIX* shines with a light spectrum all its own. It's

a densely thundering behemoth that shows both a speed freak's obsession with detail and an acidhead's transcendent scope. Sort of like a guy looking over a 70mm film frame with a magnifying glass. John Shirley's politicized *ECLIPSE* shows great progress from his energetic but immature early work—the hilarious *TRANSMANACON* and the wack *CITY COME A'WALKIN'*—but can't seem to get moving. That it's the first of a projected trilogy might have something to do with that. I still prefer his short stories (so far uncollected in book form). Rudy Rucker's work is completely insane, in a healthy, playful way. Try the recently republished *SOFTWARE*, and lay out for the sequel *WETWARE* (due next April), which by all accounts makes his previous work look Dick-and-Jane. K.W. Jeter ain't really a cyberpunk, but who cares, eh? His *DR. ADDER* is a viciously twisted, post-Philip K. Dick extravaganza (that unfortunately falls apart at the end), while *THE GLASS HAMMER* is less warped but more polished. Greg Bear's stuff ain't warped at all; it's more traditional SF speculation, but with a post-modernist's audacious edge. Try *EON*, *BLOOD MUSIC*, and the just-published *FORGE OF GOD*. Lewis Shiner's *FRONTERA* is okay, but his best work is still in front of him. And for a good overview, try the Sterling-edited anthology *MIRROR-SHADES*, which includes a good menu of cyberpunk shorts (though some of the more obvious core samples are excluded), as well as the compiler's definitive dogma-spiel and the yok-filled story, "Mozart in Mirrorshades," a collaboration between Shiner and Sterling that parades all the sick thoughts cyberpunks have lurking in their livers. Great stuff. Read it. Just sit back, crank up the new Skinny Puppy record on the headphones, and watch a new reality jack in. But remember: Tomorrow is a lot weirder than we could ever imagine it to be.

WILLIAM GIBSON INTERVIEW

WILLIAM GIBSON is the cyberpunk Manute Bol. Ludicrously tall (maybe six and a half feet), impossibly skinny, and with a spine curved by the brutal ravages of Terran gravity, he cuts not so much a dashing figure as a question mark. Though a lingering drawl betrays his rural Virginia upbringing, he parks himself these days in moist Vancouver, British Columbia, with his almost-as-skinny wife and a couple of papooses. Novel-wise his books include *NEUROMANCER*, the *CITIZEN KANE* of cyberpunk, and its sequel, *COUNT ZERO*, the, uh, *MAGNIFICENT AMBERSONS* of cyberpunk. His handful of short stories have been collected in *BURNING CHROME*. Most recently he's completed a screenplay for *ALIEN III*, about which he's been sworn to secrecy by producers David Giler and Walter Hill. "There's an implied world in the art direction of the first two movies," he says. "You can deduce a lot about what's happening back home. And in the third one, it turns out that it's more complex than one would have thought." Original director Ridley Scott and designer H.R. Giger are reportedly being sought, but nothing is yet confirmed. Gibson is now completing his third novel, *THE MONA LISA OVERDRIVE*, which Bantam Books hopes to have out some time next year.

HIGH TIMES: There's a lot of drug use in your books. Was this wishful thinking on your part, or just a part of the world as you saw it?

GIBSON: Well, I don't know. When I first started writing this stuff—1981, I just thought it was part of the world. Looking back on it, it does look like wishful thinking. But for that matter, people having casual sex now looks like wishful thinking. I mean, sometimes the set changes faster than one can extrapolate.

What with all the anti-drug hysteria have you gotten much flak about it?

Not really. Mainstream science-fiction writers have put it down for being sort of a downer. They say, 'How can you be so negative about the future?' And I don't think I'm being negative at all—I think I'm wildly optimistic.

Well, your stuff is just basically ambiguous, the way the world is. It's a bogus issue, like whether you're anti-technology or pro-technology. I mean, technology is a fact of our lives, and it's transmuting us physically and mentally.

Yeah, it's like somebody coming up to you and asking, 'Are you pro-breathing or antibreathing?'

Why do you bother writing science fiction, anyway? So much of it is such bogus garbage these days.

Well, I don't think there's any area of pop culture that's *innately* bogus. This so-called cyberpunk thing is kind of a roots movement. All these guys, who have nothing else in common, take this science fiction stuff quite seriously—more seriously than I do. But I think there's some part of myself that I seldom access consciously that really loves this stuff. Maybe I don't like the way it's usually played. I did come in from an angle of attack that was kinda like, 'Let's get this thing back on track.'

Did you go about it with a conscious game plan?

Pretty much. I set out to do certain things backwards. I had a sense of what the expectations of the SF industry were in terms of product, and I reversed them. I hated what was going on so much, that I just turned it around.

Like, instead of male lead characters who were macho competent men, you gave us Case in *NEUROMANCER*, who's something of a pathetic loser? You said in another interview

that when you were writing *NEUROMANCER*, you were conscious of accessing the fucked-up adolescent in you—was that Case?

Well, yeah, that was quite conscious—that's my teenage book. It's not autobiographical in any sense, but the characters are drawn out of my sense of what people like that are like. It's about this huge unfocused angst, combined with a kind of lack of affect about the real horrible shit that's happening around you. Something I've seen in a lot of people.

And what about Molly, the tough little hit-dame who saves Case's butt? She also a reversal?

Well, actually she's more a cop from Howard Hawks (acclaimed director of such films as *BRINGING UP BABY*). And she's, as far as I can tell, the real popular thing about the book—she's the one people dress up like at science-fiction conventions.

Really? That must be spooky, like seeing your bad dreams come to life... *NIGHTMARE ON GIBSON STREET*...

Well, that's one of the scary things about writing. When I do this stuff, I feel like I'm dangerously close to inventing reality; because often if you write about something, you do run into it later. It's enough to make you careful about what you're creating.

Any other SF expectation you were playing with?

Well, I wanted it to be really impossible, in terms of textual evidence, for anybody to determine that the United States still existed as a political entity. It's not even that you can't tell *who's* running the country—you can't even tell *if* it's a country.

Which is a *given* in so much American science fiction.

Yeah, in most American SF, America is the future, and that's rubbed me the wrong way for a really long time.

Okay, we've been spending a lot of time badmouthing science fiction—there must be *something* good about it.

Well, I know it had a liberating effect on me when I was a teenager. I have never forgotten that SF in the early sixties was the sole source of subversive information that I had. I was iso-

lated—but so are most people to one extent or another—and here are all of these crazy, monstrous souls writing this stuff (or at least half a dozen of them were). It attuned me to all the strange data coming in from outside, and it's really still enough of an odd-ball community to keep my interest.

Are there any other SF writers who still excite you?

Well, Bruce Sterling is still my favorite. I mean, he's got so many ideas per page that, you know, *hundreds* of other SF writers could subsist in a parasitic relationship with his ideas for a decade. And Greg Bear, who is seriously into science in a way that I'm not. That still has the capacity to chill me. And I really liked a book by Marc Laidlaw called *DAD'S NUKE*—and he's actually young; he might even be under thirty. But, I think the favorite stuff that I've read lately are two books by a guy named Madison Smartt Bell, *THE WASHINGTON SQUARE ENSEMBLE*, and *WAITING FOR THE END OF THE WORLD*—brilliant books. And the guy is really lucky he didn't get stuck being a science fiction writer, because the books have all the elements of that kind of fiction.

Which is...?

I see these guys basically as the children of (Thomas) Pynchon, I think he was the start of all that—

You mean like *RUBICON BEACH* by Steve Erickson, *EASY TRAVEL TO OTHER PLANETS* by Ted Mooney, and *FISKADORO* by Denis Johnson—this mutant breed of near-SF, crossed with surrealism, realism, and pop culture imagery?

Yeah, I think if you went and met those guys, they all would have turned out to have read *GRAVITY'S RAINBOW* a couple of times and been very much influenced by it.

Yeah, and maybe they read SF when they were 12, but haven't touched it in 15 years.

Well, I don't know—I read an essay by Pynchon in the *Sunday Times Book Review* a couple of years back, and he said something about the basic wonderfulness of science fiction. I'll bet he sits around and reads it for pleasure.

You really think so? How embarrassing—that's like someone going through your underwear drawer...

I don't know—we all have these weird hungers that culture and subculture lay on us at an early age. These guys probably all read the crappy SF that I

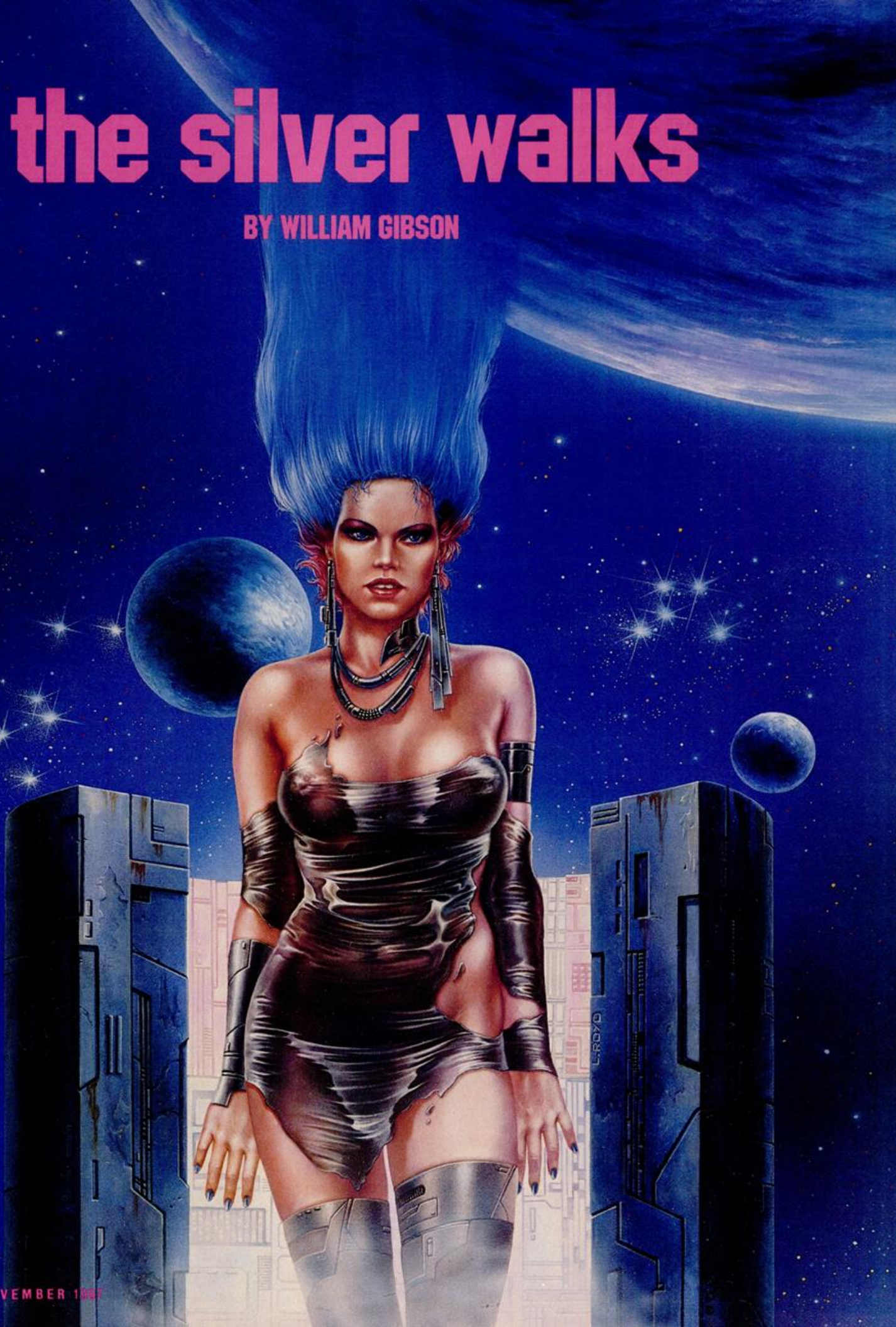
continued on page 72

PHOTOGRAPH BY ALEX WATERHOUSE-HAYWARD



the silver walks

BY WILLIAM GIBSON



She'd had this friend in Cleveland,

Lanette, who'd taught her lots of things. How to get out of a car fast if a trick tried to lock the doors on you, how to act when you went to make a buy. Lanette was a little older and mainly used wiz, she said, "to move the down around," being frequently downed-out on anything from endorphin analogs to plain old Tennessee opium. Otherwise, she said, she'd just sit there twelve hours in front of the vid watching any kind of shit at all. When the wiz added mobility to the warm invulnerability of a good down, she said, you really had something. But Mona noticed that people who were seriously into downs spent a lot of time throwing up, and she couldn't see why anybody would watch a vid when they could stim just as easy. (Lanette said simstim was just more of what she wanted out of.)

She had Lanette on her mind because Lanette used to give her advice sometimes, like how to turn a bad night around.

Tonight, she thought, Lanette would tell her to look for a bar and some company. She still had some money left from her last night's work in Florida, so it was a matter of finding a place that took cash.

She hit it right, first try. A good sign. Down a narrow flight of concrete stairs and into a smokey buzz of conversation and the familiar, muted thump of Shabu's "White Diamonds." No place for suits, but it wasn't what the pimps in Cleveland called a *spot*, either. She was no way interested in drinking in any spot, not tonight.

Somebody got up from the bar to leave just as she came in, so she nipped over quick and got his stool with the plastic still warm, her second sign.

The bartender pursed his lips and nodded, when she showed him one of her bills, so she told him to get her a shot of bourbon and a beer on the side, which was what Eddy always got if he was paying for it himself. If somebody else was paying, he'd order mixed drinks the bartender didn't know how to make, then spend a long time explaining exactly how you made the thing. Then he'd drink it and bitch about how it wasn't as good as the ones they made in L.A. or Singapore or some other place she knew he'd never been.

The bourbon here was weird, sort of sour but real good once you got it down. She said that to the bartender, who asked her where she usually drank bourbon. She told him Cleveland and he nodded. That was eth and some shit supposed to remind you of bourbon, he said. When he told her how much of

her money was left, she figured out this Sprawl bourbon was expensive stuff. It was doing its job, though, taking the bad edge off, so she drank the rest and started in on her beer.

Lanette liked bars but she never drank, just Coke or something. Mona always remembered one day she'd done two crystals at the same time, what Lanette called a two-rock hit, and she'd heard this voice in her skull say, just as clear as that, like it was somebody right in the room: *It's moving so fast, it's standing still.*

And Lanette, who'd dissolved a match-head of Memphis black in a cup of Chinese tea about an hour before, did half a crystal herself and then they'd gone out walking, just ghosting the rainy streets together in what felt to Mona like some perfect harmony where you didn't need to talk. And that voice had been right, there was no jangle to the rush, no tight-jawed jitter, just this sense of something, maybe Mona herself, expanding out from a still center. And they'd found a park, flat lawns flooded with silver puddles, and gone all around the paths, and Mona had a name for that memory: The Silver Walks.

And sometime after that Lanette was just gone, nobody saw her anymore, and some people said she'd gone to California, some people said Japan, and some people said she o.d.'d and got tossed out a window, what Eddy called a dry dive, but that wasn't the kind of thing Mona wanted to think about, so she sat up straight and looked around, and, yeah, this was a good place, small enough that people were kind of crowded in but sometimes that's okay. It was what Eddy called an art crowd, people who had some money and dressed sort of like they didn't, except their clothes fit right and you knew they'd bought them new.

There was a vid behind the bar, up over the bottles, and then she saw Angie there, looking square into the camera and saying something, but they had the sound down too low to hear over the crowd. Then there was a shot from up in the air, looking down on a row of houses that sat right at the edge of a beach, and then Angie was back, laughing and shaking her hair and giving the camera that half-sad grin.

"Hey," she said to the bartender, "there's Angie."

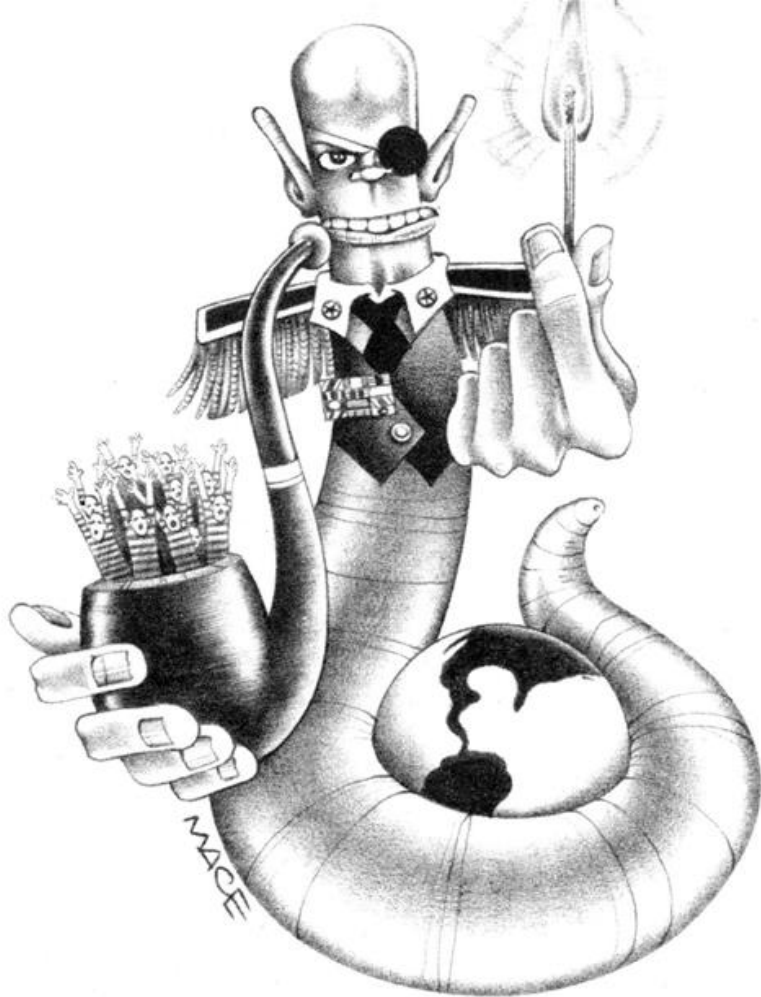
"Who?"

"Angie," Mona said, pointing up at the screen.

"Yeah," he said, "she's on some designer

continued on page 86

ILLUSTRATION BY ROYO



UNMASKING THE COCAINE CONTRA CONNECTION

BY JOEL MILLMAN

ART BY LENNY MACE

Three ex-drug smugglers, all currently in jail, have given testimony to federal officials that links the Nicaraguan Contras to illegal arms and drug shipments that go back at least to 1983, and may have been conducted under the direct supervision of officials of the United States government. The three, currently incarcerated in a Miami Correction Center, first made their charges public at the beginning of this year.

According to George Morales, Gary Betzner and Michael Tolliver, the trafficking consisted of ferrying arms shipments to Contra supply depots in Honduras, El Salvador and Costa Rica, then returning cargoes of illegal drugs to the United States. The arms-for-drugs operation also offered the pilots the option of "freelancing," that is, running their own shipments of drugs up from Central and South America as an additional payment for making the arms runs. The three say they believe both ends of their missions were sanctioned by federal authorities.

Of the three, George Morales may be the most important witness. Morales, a Colombian national, came to the drug smuggling business after a successful career in sports. A three-time offshore power boat champion, Morales broke speed records for ocean racing, at one time winning \$500,000 in prize money for powering a catamaran with four 635 horsepower engines from Miami to New York in just under 20 hours. That same resourcefulness, federal agents say, was applied to narcotics trafficking, with Morales earning profits into the billions of dollars by acting as a conduit between the so-called Medellín cartel in Colombia and traffickers in Florida. According to court documents, Morales directed the movement of dozens of smugglers, arranged the recruitment of pilots, the purchase of planes and the disbursement of tons of marijuana and cocaine

from his hangar at the Opa Locka airport northwest of Miami. In 1983, he says, he began arranging arms shipments for the Contras.

"I was the president of the company," he says. "I arranged for the flights and got the pilots." One of his pilots, Gary Betzner, was instructed in May 1983 to fly a blue and white C-47 out of Opa Locka. Betzner says when he arrived at the hangar he saw Morales helping to load several tons of grenade launchers into the aircraft. Betzner was told to fly to the Ilopango Airbase in El Salvador, then the hub of the U.S.'s military operation in the region, after first stopping at the U.S. Naval Air Station at Boca Chica, just east of Key West, where six nautical mines were loaded onto the plane. Betzner says it was after midnight when he arrived at Ilopango.

"They asked us if we wanted to go into town to the Sheraton after we unloaded," says Betzner, adding that he and his co-pilot declined the offer, planning instead to fly a second leg of the journey as soon as their craft was refueled. He says Salvadoran military personnel unloaded the weapons and mines, while an American civilian known to him only as "Sam" met the pilots with a tube of maps and other instructions and directions to fly to Colombia to pick up additional cargo. That cargo, says Betzner, was 6,000 pounds of marijuana, to be delivered to the Bahamas. The C-47 made the pickup and met up with Morales at Great Harbor Key in the Bahamas later that day. From there Morales made his own arrangements to deliver the drugs to Florida and returned with Betzner to Opa Locka.

The May 1983 flight was one of nearly two dozen such trips Morales says he arranged for the Contras. Even after Congress cut off military aid to the rebels, Morales says he continued to supply weapons, instructed by CIA operatives in Costa Rica. In the summer of 1984, Morales told Betzner to make two more flights, both to an airstrip in northern Costa Rica on a farm owned by an American expatriate named John Hull. Hull, widely reported to be a link between the Contra rebels and the secret White House supply network, has also been the focus of other drug investigations. Betzner says he first flew to Hull's airstrip in August, 1984, bringing 2,000 pounds of ammunition from Ft. Lauderdale. He says he met with Hull and two associates on the first trip, and on both occasions returned to Florida with a cargo of cocaine. Morales says he made large cash payments to Hull for the use of the airstrip.

Most troubling about Betzner and Morales' testimony is that it was apparently available to federal authorities for some time, months if not years, before either man began speaking to the press. Betzner, who was arrested and jailed on separate charges in 1985, appears to have rather limited knowledge of the Contra-aid network. Even though Morales has said repeatedly that he has shared his knowledge with FBI and Drug Enforcement Administration agents in South Florida, he has still not been charged with any violations relating to his Contra activities. Morales was scheduled to go to trial earlier this year on charges of drug smuggling related to a Quaaludes bust in 1984, and a 1986 charge of conspiracy in smuggling cocaine from Costa Rica to the Bahamas. He says the arrests came long after he agreed to help re-supply the Contras and just a month after he says he met with representatives of the vice president's anti-drug task force. At that meeting, he says, he was offered immunity for any smuggling he may have been involved with between 1980 and 1986, in exchange for his continued support of the supply operation. Ironically, Morales said he planned to subpoena Vice President George Bush, as well as Secretary of State George Shultz, while using a national security defense in the trial. His attorney promised to subpoena records from the CIA, DEA and National Security Council that he said would help clear his client, but, the day after the trial began, Morales copped a guilty plea in exchange for a sentence that may run as long as twenty years. The plea has not changed the statements Morales made about his work with the Contras. Morales said he agreed to the plea after federal authorities threatened to indict his wife and link her to his case.



In assessing Betzner and Morales' statements, caution should be observed. Both men, convicted felons, so far have only each other as corroborating witnesses (Betzner says his co-pilot on the flights to Ilopango, Richard Healy, was killed in a plane crash in Colombia in 1985), and prisoners often try to use the media to harass prosecutors or others they perceive as enemies from behind bars. Justice Department officials in Miami do have options in dealing with witnesses like these. They can ignore them or they can attempt to get their testimony on the public record by convening a grand jury to investigate the allegations and give the witnesses immunity to testify before that panel. So far the Department's position has been to dismiss the pilots as noncredible, suggesting that their stories are fabrications derived from the spate of newspaper stories about Contra drug trafficking that have emerged as a result of the Iran-Contra scandal. According to this scenario, Betzner and Morales are hoping to use Congress' growing interest in the Contra-aid network for some future gain. "These individuals are selling a story to Congress and the media that they have concocted to have their sentences reduced or have their cases dismissed," says Bill Yout, a spokesman for the DEA in Miami. "They had plenty of opportunities to tell their story in court and none of them did."

That argument is weak. Morales, long before he agreed to plead guilty in his case, made it clear that he *would* tell his story in court. In Betzner's case, as with the third pilot, Michael Tolliver, neither man was charged in connection with his supposed Contra supply runs, so should not have been expected to offer information about other crimes while their cases were proceeding. In Tolliver's case the argument that the witnesses are playing for assistance from Congress is weakened further by the fact that Tolliver is likely to be released from custody long before Congress completes its

work on the Iran-Contra case. Tolliver, with a relatively short sentence of 30 months following his own guilty plea in a conspiracy case, expects to be released on parole later this summer. "I don't really care if people believe me or not," he told the *Village Voice*. "In fact, I didn't have anything to say at all about this until I was asked by reporters, who said they got my name from other sources. I said I would wait until I was sentenced, after that I felt, 'why not?'"

Tolliver says he was contacted and asked to make arms-for-drugs flights in the summer of 1985, and that he made two runs in 1986. He did not work with either Morales or Betzner in supplying arms to the Contras, although he says he learned of the Contra drug network as early as 1984 while in prison on an unrelated charge in Georgia. Both of his flights involved moving arms to Contra bases in Honduras. In May 1986, Tolliver says he was instructed to fly a DC-6 loaded with weapons from Miami International Airport to the Contras' main supply base at Aguacate. He says he had a three-day layover in Tegucigalpa, where his plane was reloaded with 25,000 pounds of marijuana. Tolliver's return flight took him to Homestead Air Force Base south of Miami, where he says he left the plane and the marijuana and took a taxicab to the Fountainbleau Hotel in Miami Beach. The next day he picked up \$75,000 in cash, then returned home to Atlanta, where he says he was called three times over the next two months and kept advised of upcoming supply missions.

Tolliver says his second flight occurred in July, this time out of Haiti, where he says he took a DC-3 to Aguacate, then flew south to Colombia and loaded on a mixed cargo of marijuana and cocaine. The DC-3 was left in the Bahamas, but Tolliver says he was never paid for the arms shipment, and soon lost contact with the network. He says he also made a refueling stop on a flight from Colombia, touching down at Hull's airstrip in Costa Rica. Tolliver identifies Hull as a major player in the drug trade, although he says he does not know about Hull's Contra connection, specifying that his trip to the airstrip was not related to arms shipments for the Contras. Moreover, Tolliver identifies two men linked to the Contra supply network as his own contacts. A man who called himself Eduardo Hernandez, who Tolliver now believes is the same Max Gomez who ran the resupply depot at Ilopango, met with Tolliver in Honduras; and a second Ilopango operative, Rafael Quintero, met with Tolliver in South America. Both men are Cuban-Americans with long-standing ties to the U.S. intelligence community. Both are now fugitives.

Tolliver says since he has gone public

there has been no effort by federal prosecutors to contact either his lawyer or himself to have him testify under oath about what he knows about the Contra supply network. "The federal authorities are suppressing this information," he says. "Because it's true. Look, arms cost money, lots of money. The most readily saleable commodity is drugs. So they use people who already have an existing network and mechanism for selling drugs, that is, drug pilots. We take the arms down and bring the drugs back. Ed Meese should be in here with us."

The failure of Attorney General Meese's prosecutors in Miami to call any of these pilots before a grand jury fits a disturbing pattern of behavior that has come under scrutiny ever since charges of Contra arms and drug smuggling were first raised. Leon Kellner, the head of the Miami office, has seemed less than eager to pursue charges that the Contras and their supporters have violated neutrality and arms export laws and has only begun in the last six months to bring witnesses before a grand jury. That panel is looking into arms-trafficking allegations that go back more than two years. Morales, for his part, says his activities were well known to federal authorities after an informant told FBI agents about his arms purchases in 1985. Betzner says he saw Morales meeting with DEA agents that same year, which he says suggested to him that their smuggling activities were being sanctioned by federal authorities.

But the position of Kellner and his staff has been to discount the testimony of the MCC pilots, even to the extent of implying that by making their statements Morales, Betzner and Tolliver may be obstructing justice by tying up resources needed for more legitimate investigations. "It's a very frustrating thing," Kellner told the *New York Times* last February, "because the work I have been trying to do in the area of narcotics is being impaired."

The treatment of the Morales-Betzner-Tolliver revelations may be reduced to the issue of whether or not Justice Department officials—or for that matter, reporters—should believe the statements of convicted felons. Testimony from such "tainted" witnesses is frequently part of smuggling prosecutions, indeed there are virtually no drug cases made these days without the assistance of a confidential informant who may also be engaged in some criminal enterprise. But beyond the fact that prosecutors routinely grant immunity to witnesses in exchange for their testimony regardless of their own crimes, there are other hints that Morales and his associates have been snubbed by Justice. All three have been interviewed by Congressional investigators looking into the secret supply network; all three



are expected to testify before at least one of the panels probing the affair. Morales has already come before Congress' attention. In June 1986, six months before he began speaking to reporters from the MCC, Morales' name appeared on a list of possible witnesses compiled on a secret memorandum issued by staffers of the House Select Committee on Narcotics Abuse and Control. Also appearing on that list were the names John Hull and Frank Sturges, one of the Watergate defendants. At the same time, Morales is believed to be the "Colombian narcotics trafficker" mentioned in a State Department report last year who allegedly gave a plane to Contra leader Eden Pastora, presumably for use in arms and drug smuggling. Morales says, starting in 1984, he met frequently with Contra leaders Adolpho Calero and Alfonso Robelo. While both men strenuously deny they met with Morales or have any involvement with narcotics, Robelo, a former ally of Pastora, does acknowledge that he has heard allegations that Morales was linked to a former Pastora lieutenant named Adolpho Chamorro. Chamorro, believed to have acted as the go-between for Pastora and Morales, was deported from Costa Rica last year after charges he was involved in drug trafficking were raised there.

In the face of growing speculation about the Justice Department's mishandling of the Contra drug investigation, the Miami office is hunkering down. Numerous calls from the *Voice* to discuss the three pilots went unanswered. At the same time, it has not been possible to confirm whether any of the pilots have been offered immunity to appear before the grand jury. Even if the Department's mishandling can be attributed to caution, and not to a cover-up, disturbing questions have been raised by the Department's treatment of

a fourth witness, one who is not in jail, and who presumably carries none of the burden of credibility shouldered by felons.

Her identity and information about her background remain sketchy, as do the circumstances surrounding her willingness to testify about the drug business. But she has claimed to have worked for a number of years with top leaders of the Medellin Cartel, and reportedly has evidence that links the cartel's drugs to the Contra resupply network and the same Miami aviation company that many suspect has served as a "cut out" for US intelligence activities designed to circumvent the ban on aid to the Contras. Her code name is Wanda Doe.

By September Wanda Doe was meeting with investigators from Senator Kerry's staff, while his office began working with Justice officials in Washington on a grant of immunity. By this time Wanda Doe had already given information to FBI agents in Miami (her testimony is said to be contained in a file several inches thick), as well as offering a letter to Justice officials stating the nature of the information she was willing to disclose in return for immunity. At the request of William Weld, the chief of the local office's criminal division, Wanda Doe and her attorney prepared a nine-page proffer, offering even more detail about names and dates, flights and other information regarding the cartel's activities. "It's supposed to be a no-cost agreement," says Marc-Charles. "You take a witness' testimony, you get information and you sign an agreement that this testimony is not going to be used against her. I was naive. Little did I know in what disfavor the Justice Department was holding the Kerry people. This was a political hot potato."

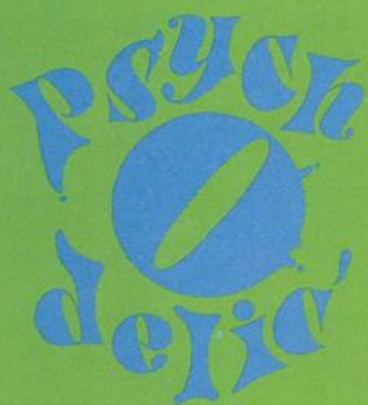
But even Marc-Charles could not anticipate how much hotter things would get. As September eased into October, no decision had been made on immunity for Wanda Doe. There were politics being played on both sides now, with the midterm Congressional elections approaching, Justice was looking to protect the administration from any bombshell that would conclusively link the Contras to the drug trade; Senator Kerry's office was eager to nail down immunity for a witness who would bring new life to the year-long campaign to put Contra-drugs before a Foreign Relations Committee hearing. But when an unmarked C-123 was shot down in the jungles of southern Nicaragua on October 5th, Wanda Doe and her testimony was cast in a new light. The C-123, flown out of Ilopango by one of Oliver North's mercenary crews, suddenly made Wanda Doe more credible. And more dangerous.

continued on page 82

HIGH TIMES

PRESENTS

Chef Ra's



Kitchen

by Ra James

photos by
Andre Grossmann

Have you been looking the world over for just the right diet? Tired of fast food burgers and TV dinners? Then join the HIGH TIMES cross-cultural, revolutionary culinary movement!!



Ra can't wait to sample his puna butter stuffing, and it's no wonder, considering the green bud that went into it.



The Chef at home. Tie-dye apron by Paul Alexander. Chef's hat by Maggie and Scott at the Leather Shop, Champaign, Illinois.

RA cuisine is designed for the mind and body. The first step to a healthy diet is eating less prime rib and rich sauces and eating more veggies, fresh fish and fine green herb. So leave the Lean Cuisine in the freezer and get ready for the Rasta Pasta Pesto and Virgin Red Snapper!

Fire up the stove, heat up that ol' cast-iron skillet, cause Chef Ra is in town, and some jammin' cookin' is goin' down. The HIGH TIMES posse says, "Ra's gonna take you on a culinary trip: cuisine for the mind and body."

Chef's Note: Cooking with psychoactive substances takes a certain "spiritual" approach. The foremost goal is to get high safely and easily. Dosages should be limited to one or two joints per person. It's better to eat THC-loaded food first, and save the other food for last. The buzz takes at least 1½ hours to kick in, so try and stay put. In other words, do not run errands, drive a car, or operate heavy machinery shortly after eating. And please be careful! The effect of eating herb is much, much stronger than smoking!! So let's get cookin', mon!



CHEF RA'S RASTA PASTA PESTO

- 1 Box pasta
- 4 cups of fresh basil leaves (washed and dried with paper towel)
- ½ cup of walnuts
- ½ cup of pine nuts
- 6 cloves of garlic
- 1¼ cups of olive oil



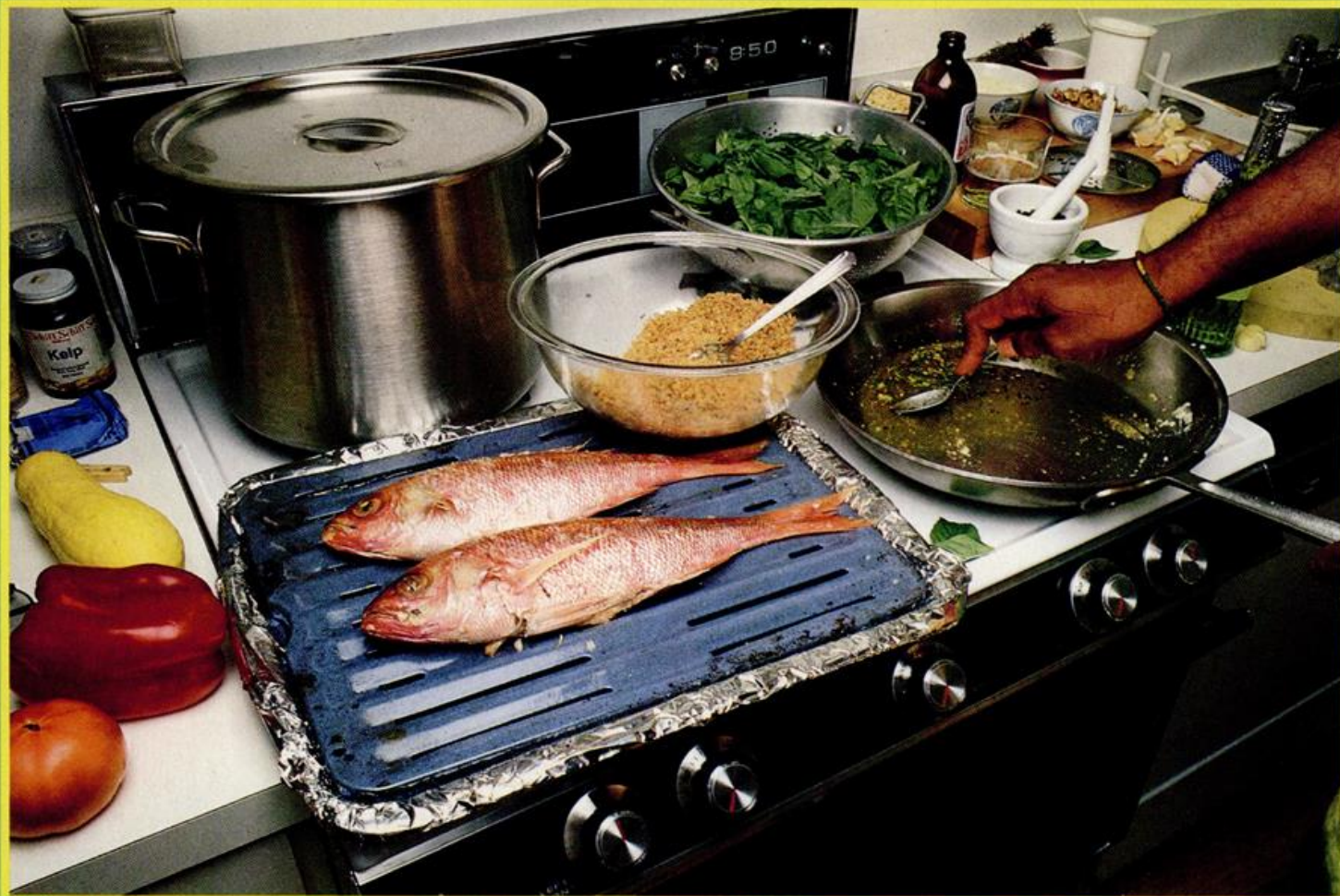
ANDRE GROSSMANN

1 1/2 cups of fresh parmesan
1/4 cups of romano cheese
1/4 ounce sinsi

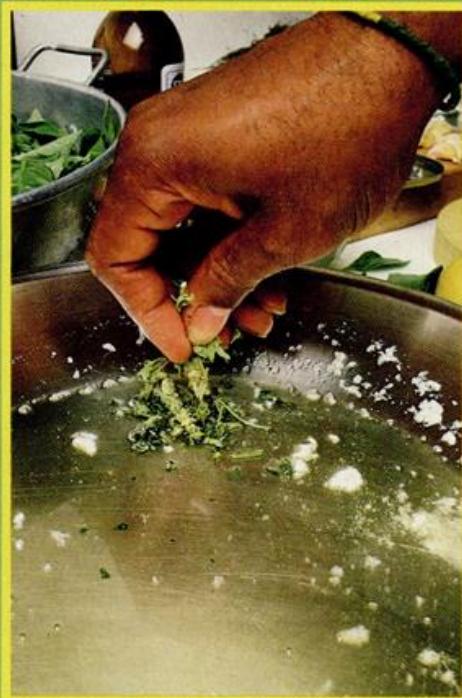
Combine basil, garlic, walnuts and pine nuts in a food processor and grind into a green

paste. Take a 1/4-ounce of sinsi and grind in a food processor. After grinding sinsi into powdery form, take an iron skillet, pour in 1 1/4 cups of olive oil and heat in the pan for 20 minutes, making sure not to burn the sinsi. Cooking assures the

transference of THC into the oil. Let the oil set until it is warm, mix everything in a bowl with the pasta. Add the Ra oil, cheeses, basil and pasta, tossing the RASTA PASTA PESTO to insure even distribution of the pesto in the pasta.



As the red snapper is being prepared for the oven, the chef carefully skims the foam out of the butter.



Grind the bud into fine pieces and add to the clarified butter. The better quality the bud, the better the dish. The effect of eating herb is much stronger than smoking, and also much more healthy for you.

CHEF RA'S VIRGIN RED SNAPPER

- 1½ pound red snapper (one for each person)
- 2 tablespoons oil
- 1 lemon
- 1 tablespoon thyme
- 1 tablespoon basil
- 1 tablespoon parsley

Add ¼ oz. of fine green sinsi
(WITH THE PUNA BUTTER DRESSING)

Take red snapper and brush with lemon juice. Add thyme, basil, parsley with the oil and brush the fish while cooking. Fish should cook about 15 to 20 minutes at 325° F.

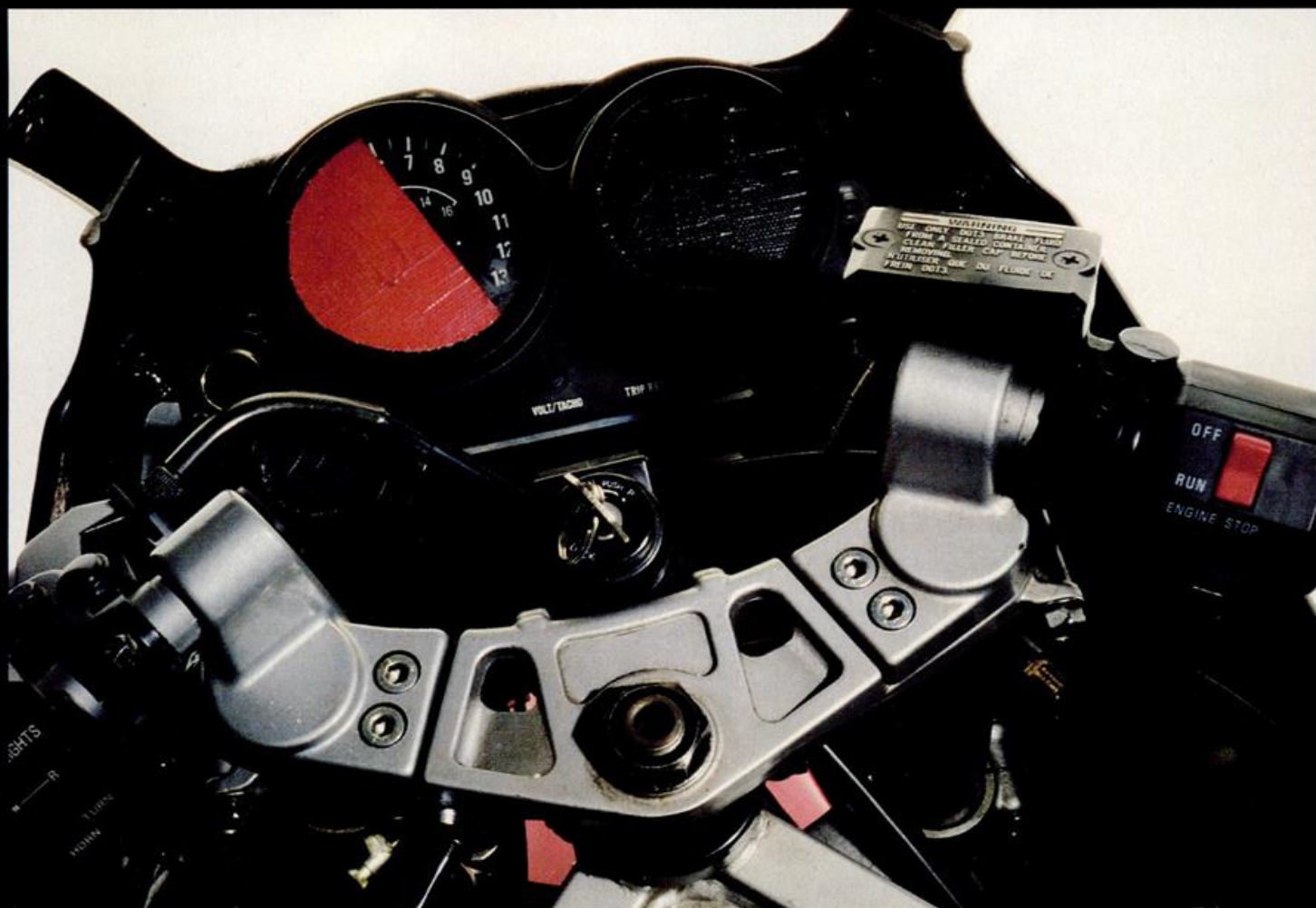
PUNA BUTTER

Melt two sticks of butter in a frying pan. Add ¼-ounce of sinsi, making sure not to burn the butter. As the butter begins to

boil, white foam and particles will come to the top. Skim the "froth" out of the butter. Make sure the pan is totally clean. Use salt and salad oil to scour the pan before melting puna butter. Metal oxides will blacken the butter and make it taste like metal! The butter should be of dark color and a butterscotch flavor. If you don't care to use the "cooked sinsi" in the bottom of the pan, then strain butter until all the "bud" particles are removed from the butter.

STUFFING

Heat up 1½ sticks of butter using the puna butter method. Add butter to bread crumbs and 1 tablespoon each of thyme, basil, parsley, with 1 green onion. One-quarter cup of mushrooms will give the dish some color. Place stuffing in fish cavity. ●



...the world's fastest INDICA.



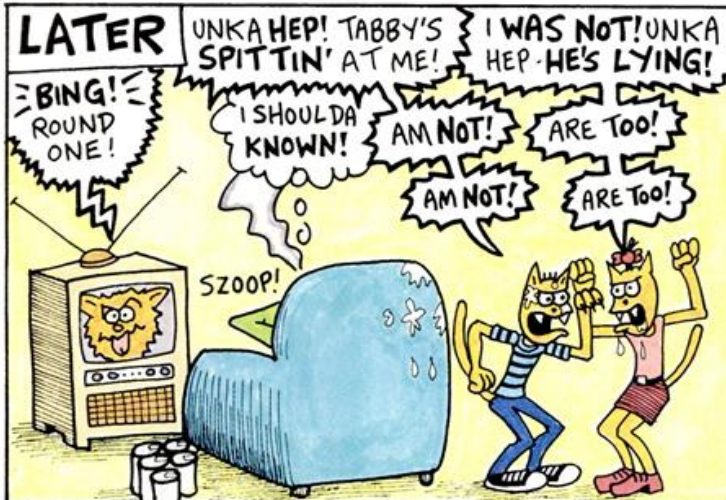


PHOTOGRAPHY BY ANDRE GROSSMANN

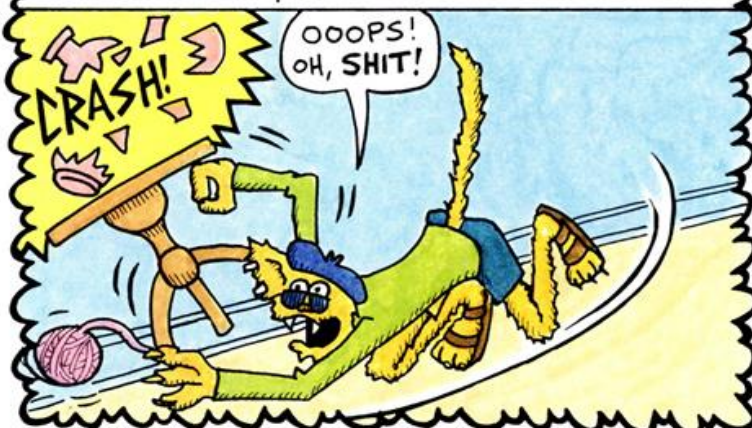


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I WAS MINDIN' MY OWN BUSINESS- PLAYIN' WITH MY BALL OF YARN, WHEN ALL OF A SUDDEN...



SHE CAME AT ME LIKE A MAD DOG!!

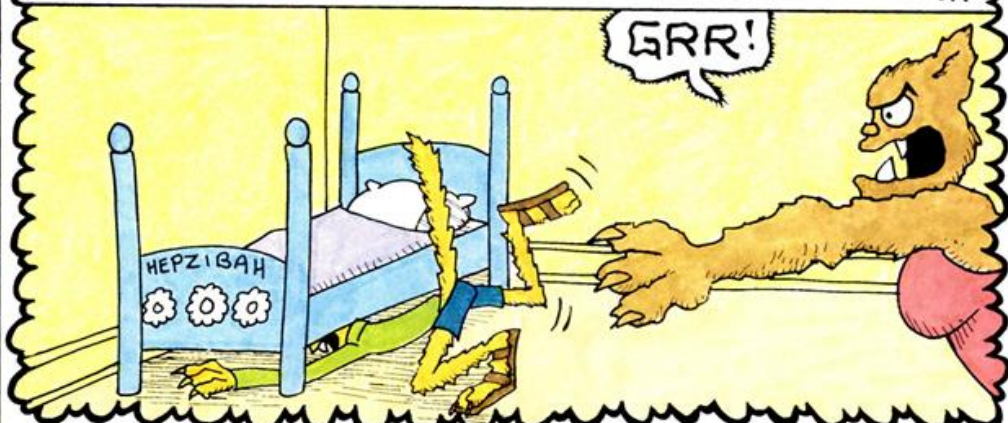
MEE-YOW! I'LL GET YOU FOR THAT, YOU RAT!



SEE, SHE HAPPENED TO BE WATCHIN' THE FIGHTS + DRINKIN' BEER- AND THE ONE THING SHE HATED- MORE THAN ANYTHING- WAS BEIN' INTERRUPTED DURIN' THE FIGHTS, SEE?



IT WAS ALL I COULD DO TO GET UNDER THE BED IN TIME...



CLOSER + CLOSER SHE CAME! STOMP! STOMP! STOMP! AND, IN ALL THE EXCITEMENT, LEFT MY TAIL STICKING OUT FROM MY BEHIND!



SHE BIT OFF THE TOP OF HER BEER CAN- LIKE THIS! CHOMP!




THEN SHE GRABBED ME BY THE TAIL AND STARTED SAWIN'! IT WAS HORRIBLE, I TELL YA! ANNEN!



HEH HEH! THAT'S THE END OF ROUND FOUR! AND IT LOOKS LIKE IT'S GONNA GO THE DISTANCE! IT'S TRULY THE FIGHT OF THE DECADE, FOLKS! AMAZIN'!



HIGH ART

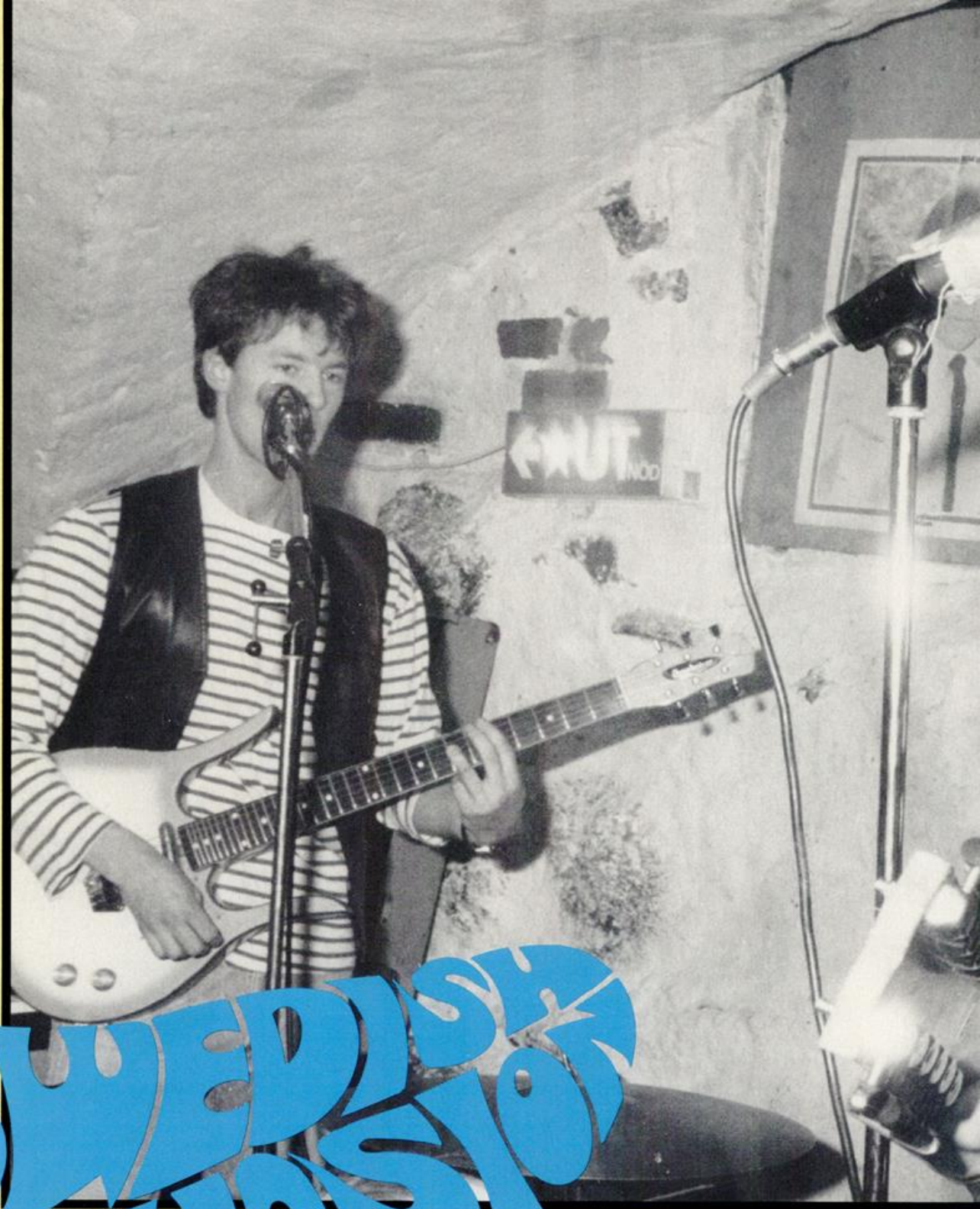



PHOTOGRAPHY BY JEFF VAUGHAN

IN THE DARKEST RECESSES of New York City, there are burrowed some of the most bizarre urban denizens to be found amongst the human species. Mighty among this odd lot is an elfin sort of hairy creature who is addressed by the noble name of AXEL. I am sure he is some tireless warlock torn from the gilded pages of an epic, medieval fairy tale. His craft looks like witchcraft, and one wonders whether he was once burned at the stake for cosmological heresy.

AXEL is an artist from the same gnarly mold as Dali and Giger, and an outlaw spirit as well; the eminent jeweler for the eminent kingdoms of the biker breed and rock'n'roll. He mines precious metals from St. Peter's gates and fires them in Satan's furnace. This wizard artisan may be the sole possessor of lost secrets of psychoalchemy, a master of the grand illusion that transforms the dead back to life and recombines the remains of the ordinary into a new, mutant wildlife.

—Carlo McCormick



SWEDISH PSYCHO PUNK

● **Psychopunkadelia**
takes root in Scandinavia



by Michael J. Weldon

Believe it or not, the hottest music scene in the world is happening in Sweden. It might surprise you that the Scandinavian country that gave us Tor Johnson, ABBA, and meatballs, has an exciting band scene. After all, in the '70s, Sweden was best known for having the highest suicide rate in the world. But the music

The Wylde Mammoths were the first of the new Swedish bands to visit the U.S. Following true garage-band tradition, their first album was recorded at home on a two-track machine.

movement there is already being compared favorably with the late '60s San Francisco psychedelic scene, the early '70s Detroit sound, and the late '70s New York/London punk-rock scene. Since the music incorporates sounds and ideas from early psychedelic sounds, as well as early punk-rock groups, the term Psycho-punkadelia has

been coined to try and describe it.

The single biggest influence on Sweden's current music scene is a mid-'60s garage band from Seattle, Washington called the SONICS. The SONICS were the wildest, raunchiest rock combo of all time, influenced early punk rock, and are also a major influence on modern American garage

rock. Many of the Swede band's singers have damaged their vocal chords trying in vain to duplicate the raspy singing style of SONIC's lead singer Gerry Rosalie. ("Garage rock," by the way, is a term for American rock bands in the '60s who were influenced or inspired by the British Invasion.)

The current music scene can be traced to 1981, when the NOMADS, from Solna, Sweden, released their version of the Sonics' "Psycho." Although the Nomads are still very popular, members of newer groups usually have rotten things to say about them because they "sold out" the '60s sound for a more modern/heavy style. Since the Nomads do mostly covers, their versions usually pale next to the easy to find originals.

The best Swedish garage groups are the STOMACHMOUTHS, the WYLDE MAMMOTHS, the LIVINGSTONES, and

the CREEPS. They all live in or near Stockholm, and the first three bands each include ex-members of the CRIMSON SHADOWS, who released two rare 45s in 1985.

The STOMACHMOUTHS are led by vocalist/guitarist Stefan Kery. Although his band has gone through major personnel changes, the current lineup has released an album called *In Orbit*. They have a very intense, traditional garage sound, highlighted by Kery's angry Sky Saxon-inspired vocals, and dominated by a SEEDS-style organ. The five original tracks, all written either by Kery or bassist Jens Linberg, sound kind of awkward. The best song on the album is "Hold Me Now" (written by the RUMORS), which ends in a psychotic freakout.

The WYLDE MAMMOTHS have a good chance of gaining a large American

following because their first album, *Go, Baby, Go!*, has been released on the Jersey-based Crypt Records (see *HIGH TIMES*, Feb. '87), and they successfully toured the States earlier this year in support of the record. The album was recorded in the basement of group leader/singer/writer Peter Maniette on a two-track recorder. They do an excellent job playing a dozen original songs that resemble the best PRETTY THINGS songs. Vocalist/guitarist Peter Maniette sounds a lot like Ray Davies on the very early KINKS records.

The MAMMOTHS' live performances were amazing, especially the rave-up at The Strip, a neo-psychedelic club on West 14th Street in Manhattan. Although there are a lot of good bands in the "Stockholm scene," most bands have to go to southern Sweden to find places to play. The MAMMOTHS hope to

A SHORT HISTORY OF SWEDISH ROCK MUSIC

BY MICHAEL J. WELDON

The roots of Sweden's music revolution started in the early '60s. Swedes took the British invasion very seriously, especially the music and long hair of the R&B influenced ROLLING STONES and PRETTY THINGS. The most successful '60s group, and the most popular among today's Swedish musicians, was TAGES, who later mutated into the very lush sounding BLONDE. Recently, double album career retrospectives, complete with rare singles and unissued tracks, of other pop groups like TAGES, the SHANES, and the HEP STARS, have provided a good history of popular Swedish beat music. Other bands from that time were the SHAKERS, OLA AND THE JANGLERS, and the NAME LOSERS. Considered one of the rawest-sounding Swedish bands, the LOSERS still play reunion gigs. They got their name after "losing" their original one, the BEACHERS, a combination of the BEATLES and the SEARCHERS.

As in America, the most outrageous, raunchiest bands never had hit records, and many never even got signed to record companies. In the tradition of the NUGGETS and PEBBLES albums, *The Continent Lashes Back Part 4*

(Sweden) and *Searchin' for Shakes—Swedish Beat ('65 to '68)* include many of the best songs by previously forgotten groups.

Although today's musical time warp Swedish bands are inspired by British and American '60s groups, and sing in English, they have their own beat groups to be proud of. Teenage bands call the '60s music their biggest influence, but most of them got started on the D.I.Y. (Do It Yourself) "nothing matters but rock 'n' roll" philosophy of the late '70s. The D.I.Y. attitude towards rock 'n' roll music inspires bands and artists to press their own records, start their own record companies, and take care of band business management. Late '70s punk never died, and is still inspiring groups everywhere, despite the fact that every other song on today's rock radio stations is sung by Phil Collins.

Swedes who care know that their first homegrown punk single, released in 1977, was "Raggare Is a Bunch of Motherfuckers!" by the RUDE KIDS. Raggare are Swedish car collectors who probably prefer '60s music themselves, but they tend to be fascist goons and were

known at the time for beating up punks. The RUDE KIDS had to be very discreet in public, and their lead singer was killed in a car "accident." PROBLEM, a band who recorded in Swedish, released their first single in 1978, and were still around in the early '80s. The most popular band from the punk days is LEATHER NUN, who've been recording since 1978, and are heavily influenced by the Detroit sound of the STOOGES and the MC5.

Look for new, or old, Swedish rock records in your local hip record stores and read about them in *NBT (The Next Big Thing)*, 20 Albert Avenue, Grangemouth, Stirlingshire, FK3 9AT Scotland, \$5.00 for a sample copy), and *AFTP (Away From the Pulsebeat)*, C.P.O. Box M1842, Hoboken, NJ 07030, \$5.00 for a sample). If you're interested in buying any of the new Swedish rock, but can't find it, send an S.A.S.E. to: Venus Records, P.O. Box 166, Cooper Station, New York, NY 10276. They'll send you a catalogue.

Thanks to Gunnar Johannsen (a prime move in the Stockholm music scene) for help, information, photos and posters.



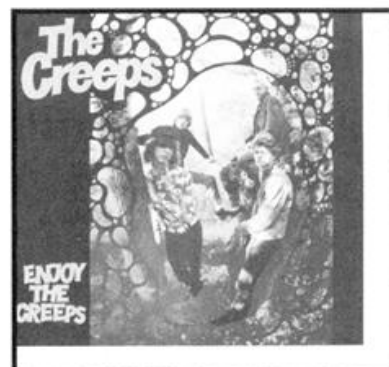
play around Europe soon and say, like most groups, that West Germany is the most receptive country to their sounds.

The LIVINGSTONES were created from the ashes of several bands (including two defectors from the STOMACHMOUTHS) and have a lighter sound.

"Fastest Car Around!" is their first single on Sunlight Records. The LIVINGSTONES are your basic four-person group—two guitars, bass, and drums. "Fastest Car Around!" sounds a lot like the Beach Boys (in fact, the record label looks just like an old Capitol Records label), and the B-side, "You're Not a Better Man Than I," sounds like something off the first LOVE album.

The CREEPS, from Almhult, Sweden, have been around in one form or another since the early '80s. Although the CREEPS' album is selling well, lead singer Robert Jelinek still works at a toy

The Stomachmouths combine a Seeds-style organ and vocals. From left to right: Jens Lindberg, Martin Skeppholm, Stefan Kery, and Anna Nystrom.



The Creeps, the best Sweden has to offer: Robert Jelinek, unidentified ex-member, Hans Ingemansson and Anders Johansson. (Patrick Olsson not shown).



The Wylde Mammoths: Per Wannerberg, Peter Maniette, Johan Maniette (wearing glasses) and Patrick Emt.

“The Swedish Invasion is the first significant music movement of the '80s.”

store when the band isn't touring. The CREEPS have had successful gigs in Germany, Austria, Italy, and France, and hope to hit the U.S. after their album is released by a Canadian company. Jelinek plays a Farfisa organ but hopes to eventually buy a Hammond, and is a fan of '60s soul organists like Booker T and Jimmy McGriff, as well as '60s white garage bands. He also admits to liking

the THIRTEENTH FLOOR ELEVATORS, who were much more psychedelic than '60s garage bands. He feels that if you can't do a song better than the original, then you shouldn't bother, which is why his band plays nearly all originals.

The CREEPS' debut album, *Enjoy the Creeps*, is the best. Jelinek wrote nine of the twelve cuts, and his voice is so good he even sings two Van Morrison/THEM style ballads (“Darling” and “Come Back Baby”) that work. The band even has their own dance craze (The Creep). The only song over three minutes long is “Rattlesnake Shake,” an instrumental that could have been on a '60s A.I.P. surf movie track. Jelinek's guitar leads are effective, but simple, and the guy has a great scream. Best of all, the songs are danceable.

The other Swedish bands are standard rock groups like WILMER X (who have

been around for a while and still sing in Swedish—a rarity), and the HIJACKERS, who have just released a first single. Goteburg, a city about 150 miles west of Swedish capital Stockholm, has its own Psycho-garage scene, with bands like LEATHER NUN, CORTEX, and UNION CARBIDE (a pretty amazing Detroit sound group that you should listen for). Other Swedish garage/punk bands are PSYCHOTIC YOUTH, CRIMSON SHADOWS, SHOUTLESS (known for the great “Insane” single), and the WATERMELON MEN from Uppsala, one of the few bands with normal generic short haircuts.

Although the Swedish band scene won't take over the world the way the Beatles and their Anglo-sound did in the '60s, it is the first new and significant music movement of the '80s, which, so far, has offered up nothing else. ●

Ed Hassle's Guide to Safe Smoking

(safe sex)



the problem:
GERMS
...on the end of a J

Solution #1



THE OLD CIGARETTE HOLDER!

Solution #2

THE OLD HAND CHILLUM, MON!



FIGURE A

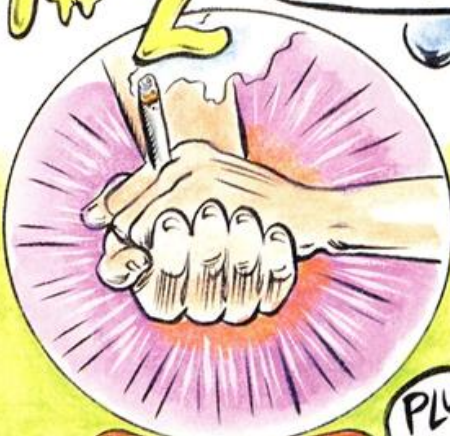
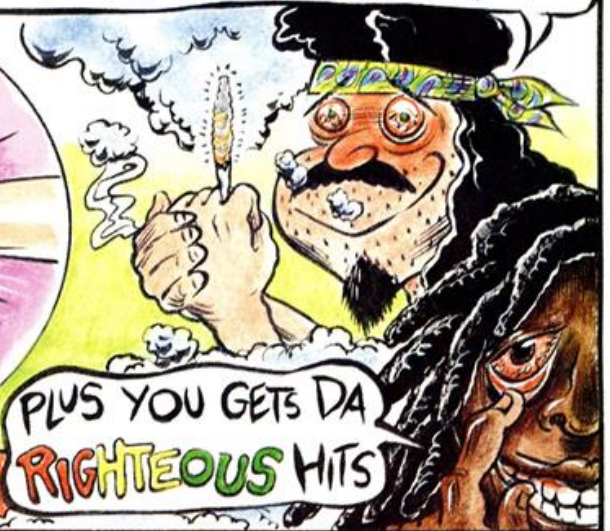


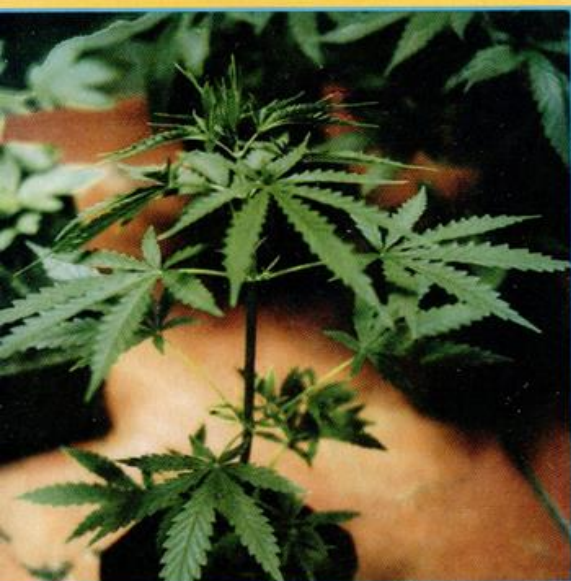
FIGURE B



PLUS YOU GETS DA
RIGHTEOUS HITS

ASKED

BY ED ROSENTHAL



Dear Ed,

Here is a photo of a plant that grew from a seed of unknown origin. It looks like a normal *sativa* plant, but it has three leaves at each internode instead of the usual two. Is this rare? Could this mean the plant is polyploid? Can this characteristic be passed on to the next generation?

—R.,

Kenosha, Wisconsin

Plants with three sets of leaves instead of two are unusual but not rare. Most of the time, after several sets of leaves, the growing tip develops two branches, which grow parallel and equally vigorous. Each branch has only two sets of leaves. It is probably the result of a single gene and is not a sign of polyploidy.

If the plant develops internodes with three sets of leaves instead of two throughout its life cycle, the characteristic can be preserved through breeding. It is easiest to develop seeds with this characteristic if both the male and female plants have three sets of leaves. If not, the plant can be crossed with a normal plant. If all of the resulting plants have three sets of leaves, the characteristic is dominant. If none of them have three sets, the characteristic is recessive. In the unlikely event that the plants exhibit the characteristic in a limited way, the trait is called partially dominant.

Recessive characteristics are the easiest to work with. When the F1 hybrids are crossed, about 25% of the seeds will exhibit the characteristic because they have received the gene for the trait from both parents. If crossed with each other, these plants will produce only three leaf sets. (See chart.)

Dominant characteristics are harder to work with because plants that have only one dominant gene in the two-gene sets will exhibit the characteristic. This means that $\frac{3}{4}$ of the plants resulting from an F1 cross will exhibit sets of three leaves. $\frac{1}{4}$ of the plants will have both genes in the set dominant, $\frac{1}{2}$ will have one dominant gene, and $\frac{1}{4}$ will not have the gene and will have two-leaved sets. Plants with two dominant genes may look a little different than the ones with only one

continued on page 71

POSSIBLE GENETIC MAKEUP OF THREE-LEAF SETS:

CAPITAL LETTERS ARE DOMINANT. SMALL LETTERS ARE RECESSIVE.

	T	n
T	TT	Tn
n	nT	nn

IF THE CHARACTERISTIC IS DOMINANT

	t	N
t	tt	tN
N	Nt	NN

IF THE CHARACTERISTIC IS RECESSIVE

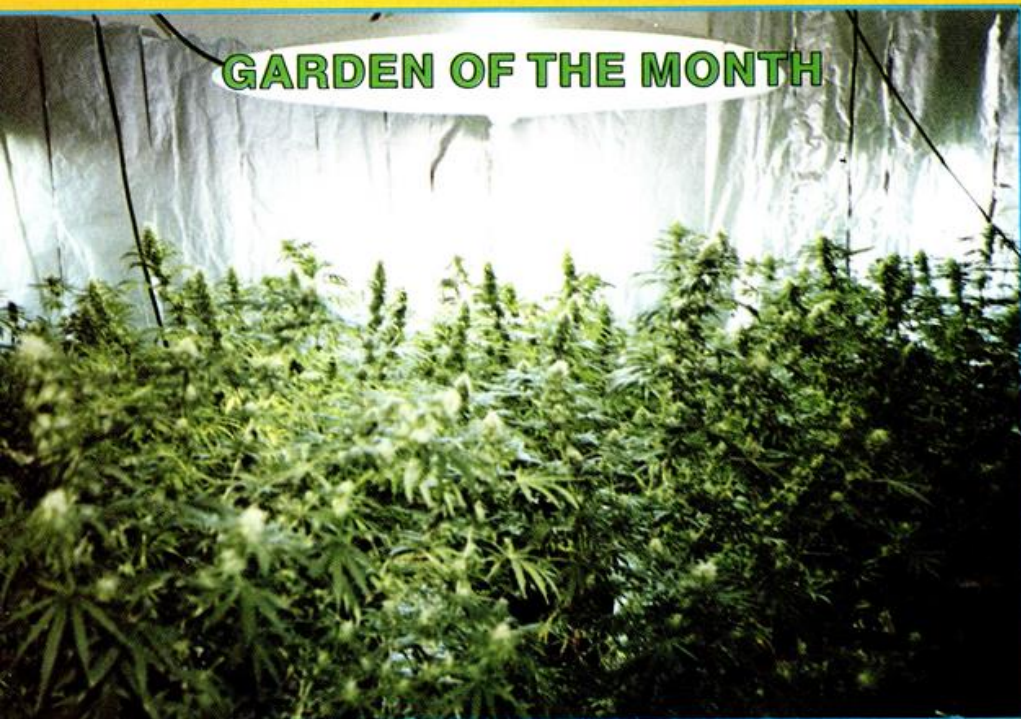
	T	N
T	TT	TN
N	NT	NN

IF THE CHARACTERISTIC IS PARTIALLY DOMINANT

T = Three-leaf sets
N = Two-leaf sets

Shaded areas show characteristic.
Lined areas show partial indication of characteristic.

GARDEN OF THE MONTH



—Anonymous
U.S.A.

BUD OF THE MONTH

This bud was six ounces. A *sativa-indica* cross, it turned out to be quality smoke. My first crop ever.

—MRM
Ohio



PLANT OF THE MONTH

Eight-week-old Kush/*indica* strain. Heavy resin, relaxing high.

—Flyin' high in Florida



MARIJUANA & HEALTH BY ED ROSENTHAL

Marijuana is easily defined in terms of health. It is one of the most benign substances used by humans. This contrasts sharply with the picture painted of it by legalization opponents. For instance, Joyce Nelepka, founder of the Parents for a Drug Free Youth stated, "It is not a moral issue, it is a health issue."

How can there be such divergent views? Simply put, the researchers cited by opponents have been doing *in vitro* experiments, that is under artificial conditions, using situations that are abnormal. On the other hand, there is a body of evidence produced by the 20-year "open lab," during which millions of people have been using marijuana.

Government-sponsored research on marijuana is based on the "pathology theory," trying to find diseases caused by marijuana. This line of experimentation is usually considered unscientific because it is based on predrawn conclusion. The researcher has an interest in producing specific results. Thus, a quack such as the late Hardin Jones was able to qualify for government grants.

The government itself admits that marijuana is relatively harmless. In public information pamphlets it states, "Marijuana does not directly cause mental problems, but like many other drugs, it appears to bring to the surface emotional problems and can even trigger more severe disorders, particularly schizophrenia." "...There is little evidence that the drug is physically addicting." "There is nothing in marijuana itself that causes people to use other drugs." "No definitive neurological study of humans has turned up evidence of marijuana-related permanent brain damage." "...There is no direct evidence so far that marijuana can cause cancer in humans."

Government paid researchers use spurious methods to conduct experiments. On all objective tests, including the use of marijuana and THC for medical purposes, the two substances—marijuana, the crude plant material, and THC, either naturally refined or synthetic—perform differently. Nevertheless, researchers often use THC and extrapolate the experiments to marijuana. However, the effects of marijuana—not the isolated, refined, concentrated chemical THC—are never actually tested.



PHOTOGRAPH BY
Ed Rosenthal

THE IMPORTANCE OF *RUDERALIS*

BY ED ROSENTHAL

For as long as marijuana has been cultivated domestically, we have thought of it as a short-day flowering plant, or more accurately, as a fall flowering plant. When the feral plant is adapted to its environment, it is triggered by night-length into flowering and ripening at the right time of the season. For temperate area plants, it should be late enough to inhibit seed germination and foraging by fall predators, but early enough to assure mature seeds for the next growing season.

Some varieties, such as the Durbans and Moroccans, flower very early in the season, and can start early budding under as little as eight hours of darkness. Even so, the flowering pattern is regulated primarily by light cycle.

Ruderalis is found in the steppes of central and eastern Europe. Incidentally, this is part of the same area that Jean Auel's heroine, Ayla, traverses in the Earth people books, *Clan of the Cave Bear*, *Valley of the Horses*, etc. The summers there are chancy. A summer can be completely overcast, rainy, sunny, hot, cold, short or lasting. In order to survive, a population must make sure that seeds are produced as quickly as possible.

Ruderalis has assured seed production by producing flowers within a week after germination. As the plant grows, the top buds continue to produce new flowers in a typical conical formation. When the flowers are fertilized, seeds drop continually throughout the season. The plant continues to flower and produce seed until killed by cold weather.

Unfertilized, *ruderalis* follows a similar path, flowering profusely until killed by cold weather. There is no definite ripening (definition: "ripening"—final stages of growth, when the pistils recede into the false calyx, which fills out; at the same time, the numerous capitate glandular trichomes or resin glands balloon out as they fill with the cannabinoid compounds formed in the cells underneath them) of the bud. It always looks immature. On June 22, at the 53rd latitude, there is a very short dark period. However, I saw *ruderalis* x *indica* hybrids growing outdoors which had nice healthy buds eight to ten inches long and up to four-inch diameter at base.

Ruderalis has some other interesting survival characteristics. The seeds have very hard shells and do not germinate if planted without being cracked. Simply winterizing the seeds with a few freezes and thaws in the freezer will not crack them. It would seem that the plants would naturally produce an abundance of seed, even in an unfavorable season. However, only some of the seeds will crack and germinate each year. The remaining seeds will be left to germinate in the years following, maintaining the population's presence even if an entire season's seed production were wiped out.

While Shultes reported *ruderalis* to be a very short, almost fragile plant with little branching, grown under favorable conditions, some variants at least, look more like *sativas*, with a dominant main stem. They are vigorous, and grow three to six feet tall in a good season. Apparently, Shultes' plants were stunted by environmental conditions. Even so, they were able to produce seed.

continued over

BY JORGE CERVANTES

"Hello, the Seed Bank, how can I help you mate?" answers a masculine Australian voice with mellow tone and a touch of formality.

"A yeah," responds a voice 10,000 miles away somewhere in North America.

"I wanted to find out a little more about that *ruderalis* plant. Does it really flower after four to five weeks, regardless of the hours of light it receives? I mean will it flower in June or July if I plant it April first?" the voice asked in disbelief.

"That's right, true *ruderalis* flowers as soon as it is six inches to a foot tall. But the true *ruderalis* plant has just a speck of THC and leafy tops. What I have done is cross-bred the *ruderalis* plant with *sativas* and *indicas* to achieve a plant that will bloom when it is six inches tall and mature into a plant with huge, potent buds. Simple genetics and breeding, that's what I am putting into practice," says Nevil, with proud precision.

Cannabis sativa plants are tall, have long internode length with slender, serrated leaves, and are late-blooming with a soaring energetic high. *Cannabis indica* is short, squat and bushy with broad leaves, and a heavy high. An increasing number of growers have also heard about *cannabis ruderalis*: The no-high pot that grows wild in Russia. This is a very special plant, but it has been overlooked by all but one breeder: NEVIL, King of the Cannabis Castle (HIGH TIMES, March '87).

The times, money and the most open society in the world have set the stage for the most outrageous discovery since sinsemilla. Varieties such as Early Pearl, Skunk No. 1 and Big Bud that have tantalized the cannabis connoisseur's palate for the last decade, are now being crossed with the unknown, forgotten and no-high *ruderalis*. Why? The photoperiod. Both *sativa* and *indica* are short-day plants that ripen when the nights grow long and days grow short: as when autumn is approaching and flowering is prompted. *Ruderalis* is not photoperiodic responsive. *Ruderalis* will flower after it is six to twelve inches tall, even under 24 hours of light.

A quote from *Marijuana Botany*, by Clarke (page 115), provides an excellent description of *Cannabis ruderalis* (also referred to as *Cannabis spontanea*) and projects the value of *ruderalis* for breeding early flowering varieties.

Russian—(35 degrees to 60 degrees north latitude) Short stature, 3-18 inches and brief life cycle (8 to 10 weeks) wide, reduced leaves and specialized seeds characterize weed Cannabis of Russia. Janischewsky (1924) discovered weedy Cannabis and named it Cannabis ruderalis. Ruderalis could prove valuable in breeding rapidly maturing strains for commercial use in temperate latitudes. It flowers when approximately 7 weeks old without apparent dependence on daylength. Russian Cannabis ruderalis is nearly always high in CBD and low in THC.

continued over

ED ON RUDERALIS

continued from previous page

The **ruderalis** start-flowering characteristic seems to be dominant. The Seed Bank reports that it has used **ruderalis** in back crosses with *indicas*. (In other words they started by crossing a **ruderalis** with an *indica*, and then kept crossing a hybrid obtained with favorable characteristics with a pure *indica*). In this way, they were able to breed the favorable start-flowering characteristic into a relatively pure *indica*.

The ripening characteristic is regulated by different genes than the start flowering characteristic. An age determinate flowering trait such as found in **ruderalis** can be bred into another variety. **Ruderalis** × *indica* or *sativa* hybrids vary in their budding characteristics as well as in their ripening response to lengthening dark periods, based on their non-**ruderalis** parent.

An early ripening plant such as a Durban, Moroccan, northern Chinese, American or north-European hemp, or domesticated early-flowering marijuana could be crossed to a **ruderalis**. The hybrid would be early-flowering and possi-

bly early-ripening but probably not very potent. After a few backcrosses, a consistent early-flowering and early-ripening strain can be developed. Once the strain with the new trait is developed, it can be crossed with the various potent strains. After a few backcrosses, the weed should be as tasty as ever.

The folks at Seed Bank and at SSSC feel that the **ruderalis** high is not too good. It ranges from a CBD buzz to a crude, primitive unrefined smoke and high. However, some correspondents have mentioned that they were familiar with potent, pleasant smoking **ruderalis** varieties. In the fall of 1986 in the European part of the USSR, there was a crackdown of wild marijuana harvesters. Presumably these people were harvesting **ruderalis** buds.

Once a variety has this age-determinant quality, it can be planted any time of the year and be expected to flower. For instance, in the United States, plants growing outdoors could be expected to yield a bud 60-90 days after planting. The bud will not necessarily be "ripe," but it certainly gives the grower flexibility in his/her planting schedule.

If clones or seeds can be planted outdoors in April or May, the buds could be

harvested in June or July. It is very likely that the plants would start to form new buds. Plants could be started continuously through the growing cycle.

Equatorial *sativas* are difficult for both indoor and outdoor gardeners to bud because they flower late in the season and require intense light. However, **ruderalis** × equatorial-*sativa* crosses should initiate flowering early in the season and probably require less intense light to form a big bud.

Indoors, **ruderalis** plants indicate at 24 hours of light, but heavy budding does not start until the dark cycle gets up to four to six hours. The implications of this characteristic in terms of indoor cultivation have not really been explored. It seems that it would facilitate plantlet-type, single buds, since the plants are virtually always ready to flower. The Moroccan growing pattern is a single stemmed, singled-budded plant. A plant with **ruderalis** and Moroccan flowering and growing characteristics, and the potency and flavor of one of the usual crew of favored varieties, would be ideal for these gardens.

Ruderalis grows as a weed over vast areas of central and eastern Europe. Thousands of strains with wide genetic variance have developed to fit different

JORGE ON RUDERALIS

continued from previous page



Male Northern Lights Indica with RFC. It had grown under continuous light until flowered. Five weeks old.

The **ruderalis** that Nevil decided to use was found near the Russian border in Hungary at about 47 degrees north latitude. This **ruderalis** plant differed slightly from Clarke's description, but he knew he had the right plant when he saw it in full bloom under the summer sun. The his-

toric day was June 29, the same day (different years) New York decriminalized marijuana. After examining thousands of plants, Nevil culminated a two-year quest with the discovery of the ultimate **ruderalis** variety. The plant was a super-strong, oversized specimen, about 3½ feet tall, with coarse *sativa*-like foliage and few calyxes. Most importantly, it was nonphotoperiodic-reactive, blooming in the middle of summer! This historic plant is pictured on the cover of The Seed Banks Catalogue.

True **ruderalis** seed is small with a motley, dark-brown color. One notable quality about **ruderalis** seed is that a small, protruding foot is found at the base. When the **ruderalis** is crossed with another *sativa* and/or *indica* variety, the foot slowly disappears as the percentage of **ruderalis** decreases.

Ruderalis has a set of genes (chromosomes) that promote early-flowering regardless of the photoperiod. The early flowering genes are dominant. The trick is to cross-breed the **ruderalis** so that dominant, early-flowering genes will cause the **ruderalis**/*indica*/*sativa* cross to flower when six to twelve inches tall regardless of photoperiod.

In theory, this breeding scenario works; in reality, it is being set into motion. Once these variety selections are made, the indoor environment provides the technology to expedite the breeding processes. With the technology provided by HID lamps, a complete life cycle—or one generation—can be completed in three short

months. Every calendar year (12 months), four generations (five generations with luck) of plants are able to grow to maturity and produce seed. This technology, coupled with a desire to smoke the very best, will undoubtedly bring forth the ultimate plant.

Implications of such a **ruderalis**/*indica*/*sativa* cross are mind-shattering. Imagine a plant that can be sown early or late and be ripe before all the other varieties. A **ruderalis**/*indica*/*sativa* cross-planted on April first will show signs of maturity by August first. However, the buds do not set on the final weight until September. The plants are still ripe enough on the first of August. In Northern or harsh climates with short growing seasons, **ruderalis** cross varieties can be grown indoors until they are six to twelve inches tall and then transplanted outdoors to flower during the short summer before the killing frost.

To breed early-flowering **ruderalis** with the high THC *sativa* and *indica* varieties, Nevil simply followed Mendel's basic laws of breeding. He bred the **ruderalis** varieties and selected the earliest flowering of the lot. The young males flower when they are six to twelve inches tall. He crossed this early-flowering male **ruderalis** plant with numerous *indica* and/or *sativa* varieties. Each time he would select the male **ruderalis**/*indica*/*sativa* cross plants that bloomed earliest; these males then crossed back with *indica*/*sativa* females. Each time this evolution takes place, a larger percentage of the

environmental conditions. Right now, the seeds people are experimenting with are the only varieties that they are able to obtain. The seed has just been cracked.

RUDERALIS:

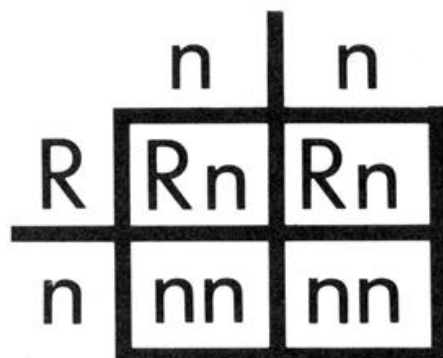
NEVIL'S BREEDING TECHNIQUE IN THE KING'S OWN WORDS.

"My next task was to incorporate *ruderalis*' early flowering characteristic into higher quality plants. I learned from my F₁ hybrids that about 10% of the offspring showed the *ruderalis* characteristic. I backcrossed one of the hybrid males to a non*ruderalis* females, and 50% of the offspring had the *ruderalis* characteristic. This held true for each generation thereafter (see chart).

"This indicates that the characteristic is a simple dominant trait. Any hybrid exhibiting the trait has it on only one chromosome, and possibly, only one allele is responsible.

"I decided to introduce this characteristic to my best lines. The mother plant was backcrossed with its earliest flowering son for six generations. Only about 2% of the genetic material was introduced by the *ruderalis* cross. I used a Mexican-Thai line on the *sativa* side (the last generation is leaning heavily towards the Thai) a Skunk line, which is 97% Skunk, Northern Lights and Hash Plant and Big Bud and G-13.

n = Normal Flowering
R = Ruderalis Flowering



"In terms of breeding these plants for commercial use, when I feel the lines are ready, I will have to breed plants with the *ruderalis* factor in both chromosomes so that all of the resulting seed has the *ruderalis* factor. To do this I will cross the plant with its mother or sister. 75% of the plants will indicate *ruderalis* factor, but only about 25% of them will have it on both chromosomes. To find out, I have to cross the resulting plants with a non*ruderalis* plant. The ones that generate 100% *ruderalis* are the two-chromosome plants. Having found a male and female, I then have a pure line.

"*Ruderalis*' flowering characteristics have broadened the horizons of cannabis breeding and growing. Pure *ruderalis* shows sex and begins to flower four to six weeks after germination, when the plants are a foot tall. It continues to flower as it grows under increasing daylight.

"The plant's primary function is to flower, and there is very little that can be done as far as light regimen that can stop it.

"Some plants become stunted, others produce long, hairy buds, and some finish off right away, except under a long photoperiod. Under decreasing day

continued on page 74

original *ruderalis* is bred out and more *indica/sativa* is bred in. The only desirable characteristic that is retained from the *ruderalis* is early flowering. In order to get a true-breeding *ruderalis/indica/sativa* cross, many generations must evolve and literally thousands of plants must be grown in the gene pool to find the one with the right genes: early-flowering, desired THC content and growth characteristics.

When the early-flowering *ruderalis/indica/sativa* male is crossed with a true-breeding *indica* or *sativa* to form an F₁ hybrid, about half of the offsprings will flower early and the rest will flower late. These seeds are the ultimate. You harvest 50 percent early crop and 50 percent late crop, and get hybrid vigor to boot!

The first time Nevil crossed the early-flowering *ruderalis* male, he was super pleased with the results. For every ten of the first *ruderalis/indica/sativa* crosses, all ten of them retained the early-flowering characteristic. This could mean only one thing: early-flowering genes in the *ruderalis* were dominant. Now it was just a matter of continuing to breed the rest of the undesirable characteristics of *ruderalis* out and retain only the early-flowering characteristic.

Growing indoors with high intensity discharge lamps helped immensely. The main characteristic he was looking for was early flowering in male plants, all he had to do was grow early-flowering male plants, select the fastest bloomer and cross it with the other *ruderalis/indica/sativa* females. The indoor grow rooms

facilitate separation of males and females. Since he was able to control all of the factors in the grow rooms, he could grow four or five generations a year! In just three short years, Nevil has managed to cram the equivalent of fifteen generations of breeding. Without the help of HID's, only three generations would have been possible.

A major setback facing growers is the

tendency to stick with the same clones. Consequently, little breeding takes place in indoor grow rooms.

Outdoors, in the U.S. growers are seldom able to harvest all their crop, and if they do harvest it, breeding may be very low on their priority list. They have to move the patches almost yearly and maintenance of breeding programs take on a real nomadic approach. ●

SOME IMPORTANT FACTS:

Ruderalis has had a difficult time retaining the same botanical classification. It seems that some botanists think *ruderalis* is a variety of *cannabis sativa* while others believe it to warrant its own classification of species. Regardless of nomenclature, we know that a *ruderalis* plant will bloom when it is six to twelve inches tall regardless of the photoperiod.

The *ruderalis* crosses have a compact size and rapid growth which make them seemingly perfect to cultivate indoors. The grower can employ 18- 24-hour days and a minimum of care and grow super plants. The *ruderalis* crosses will bloom before they get too tall; the plant makes the decision as to when it flowers, eliminating one more decision for the grower. Cuttings can be taken from the *ruderalis* crosses before they begin to flower. However, this practice is difficult to maintain because the *ruderalis* crosses will be blooming within four to six weeks. Seeds are essential to achieve consecutive crops.

To date, the *ruderalis* crosses offer the indoor grower little more than the *indicas* or the *indica/sativa* crosses. The *ruderalis* crosses are very photoperiodic-sensitive. If the photoperiod is cut to 12 hours, the *ruderalis* plant will complete flowering immediately and produce a miserable harvest. Currently The Seed Bank is experimenting with various photoperiod combinations for indoor *ruderalis/indica/sativa* crosses

—J.C.

POSSIBLE MEDICAL USES OF CANNABIS

Various societies have used cannabis to treat a variety of illnesses over the centuries, and Western medicine has recently begun to investigate cannabis as well. According to the **RELMAN REPORT**, there are two reasons for medical interest: The first is that cannabis exerts its effects "through mechanisms that differ from those of other available drugs," and secondly "since cannabis often works as an additive with other drugs, it is possible that cannabis could be combined with other drugs to achieve a therapeutic goal, but with each drug being used at a lower dose than would be required if either were used alone. As a result, fewer side effects would be expected to occur."

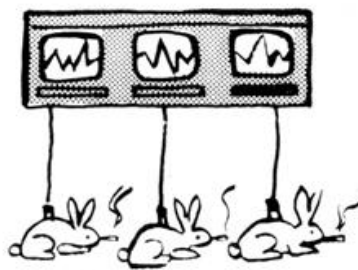
Some of the experimentation has been promising, but some has been a dismal failure. (Note Rick Seymour's comment about drug addiction in the section on syndromes.) Some of the areas of the therapeutic potential of cannabis include:

Glaucoma: Smoking marijuana reduces intraocular pressure in many patients, but the effect is temporary (only as long as three or four hours), and many patients don't like the side effect of intoxication. Some research is continuing with the thought of isolating Delta 8-THC and making a topical ointment that would have the therapeutic effect without the intoxication.

Chemotherapy: Vomiting and nausea which accompanies chemotherapy treatment in cancer patients is so awful that some patients discontinue treatment. Cannabis has been found to be an anti-emetic (anti-vomiting) agent, and Delta 9-THC has been made available through the Food and Drug Administration for this purpose in most states. Again, the intoxicating effects are sometimes disorienting, and the treatment is seen as worse than the disease. Some research is going on in an attempt to isolate certain cannabinoids which would produce the anti-emetic action without side effects.

In some cancer patients cannabis has been shown to be an appetite stimulant, but here too, side effects have kept many patients from continuing its use.

Anticonvulsant: Human and animal studies have shown that cannabis can be useful in blocking certain types of seizures—notably certain types of epileptic seizures—and research is



being done in this area.

Muscle relaxant: Petro and Ellenberger have demonstrated that cannabis is effective in relieving muscle spasm or spasticity, though there seems to be no evidence of continuing research in this promising field.

Asthma relief: While marijuana works as a bronchodilator and was thought at one time to be of possible use in this area, it is no longer considered viable because of the tolerance that develops to the smoke. Some work is being done on isolating compounds which might be effective and not require smoking.

Anti-anxiety: Cannabis appears effective as an anti-anxiety drug in some people, but it produces anxiety in others. No evidence of continuing research here, either.

Analgesic action: While some studies have shown cannabis to be effective in blocking certain types of pain, none show it more effective than what is already on the market. No further research is currently being done in this area.



Alcoholism: While at one time it was thought that cannabis might be effective in treating alcoholism, it has now been shown that cannabis and alcohol have an additive effect on each other and produce undesirable effects in this area.

Opiate Withdrawal: Here too, cannabis was at one time thought to be an effective tool. Now, however, it has been shown to not aid the withdrawing addict and to possibly reduce mental toughness, actually leading to continuing addiction and relapse.

Cannabis Research

1. There is a problem of relating animal research to human experience. In many areas the crossover is not accepted as accurate.

2. Problems are encountered in regulating the dose. In research it is easier to use isolated Delta 9-THC, though this is rarely used by itself in the individual, and the isolated component doesn't necessarily act the same way when it is found as part of the whole plant.

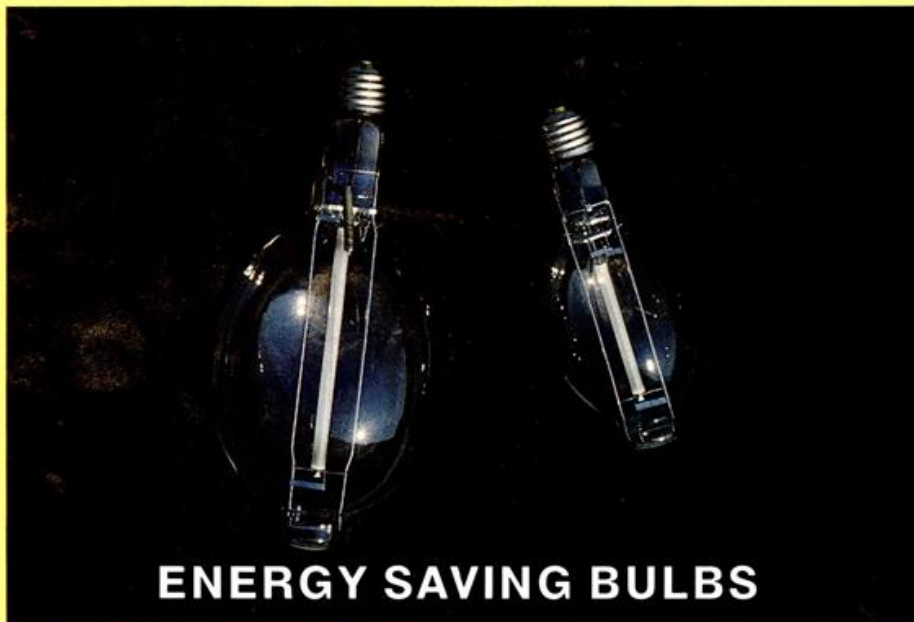
3. Since researchers are not permitted to take nonsmokers and make them smokers—grass being illegal—they must study subjects who already smoke. Since smokers are often multidrug users, assessing what part of a health issue is directly associated with grass is often a difficult and, certainly, a manipulable factor.



4. In studies of cross-cultural smokers, ganja smokers in Jamaica for example, critics of these studies point out that the accurate histories of the subjects contain variables that researchers cannot control. Proponents of these cross-cultural studies point out that these populations have a generational history of smoking. Critics point out that in cultures where cannabis is acceptable, it is acceptable only among laborers, not intelligentsia, and so results are not applicable to our society.

5. Not every researcher is scrupulous, and the lure of a research buck or continuing research bucks for information the funding organizations want to hear cannot be overlooked.

continued on page 91



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PRODUCTS

PRODUCTS

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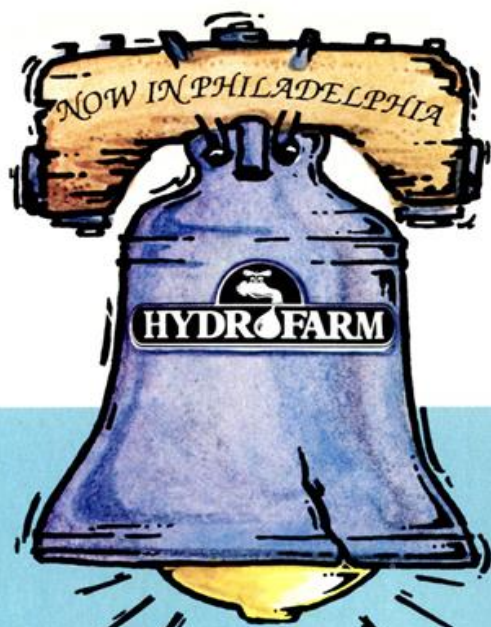


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continued from page 62

dominant gene. On the other hand they may not. If this is the case, there are two easy ways to find out which plants have double dominants. One is to breed the plans (the F2s) and see which pairs result in all three-leaved sets (the F3s). The F2s which generated the all three-leaved plants had double sets. The F2s could also be bred to a normal plant. Once again, the F2s which result in all three-leaved plants have both genes of the set dominant. If the F2 or their clones are kept alive, then the double dominant F2s can be used to breed all three-leaved F1 sets. Of course, all the F3s resulting from those F2s have only three-leaf sets, too. (See chart 2.)

To breed plants with partially dominant genes, the F1s are crossed. Plants which exhibit the three-leaved characteristic totally have a double set of three-leaf genes. (See chart 3.)

Dear Ed,

I had just worked an eight-hour shift and I was walking home when a stranger offered me a lift. Being tired, I accepted. He stopped to drop me off at the local pool hall and asked me if I wanted to smoke a joint. I said of course.

The next thing I knew a policeman had crawled on his hands and knees, jumped up and grabbed me by the arm and arrested me for attempted possession! I couldn't believe it! I had one dollar on me, total cash, but the policeman and the stranger that gave me the ride insisted in court that I was in the act of purchasing an ounce of weed! With one dollar! Even a moron knows you can't buy an ounce of weed for a dollar! As I was complaining to the judge that I was being framed, he ordered me to be restrained!

A lady rushed up to me with some documents to sign to voluntarily register for drug rehabilitation and since I couldn't afford a lawyer or the fine, I was glad to do so! I was an outpatient for four months before they would drop charges that were false in the beginning.

Earlier, the arresting officer had tried to pay my own brother to bust me. He'd been after me for about five years. I knew I'd outsmarted him till the frame. Later I saw him in a liquor store, and he told me he'd been fired because of the incident. I was thrilled that the chase was off. Still, I had to serve four months in rehab! Was that right legally?

Let anyone that passes through Monroe or West Monroe, Louisiana know that there are narcs and informers on every street corner and highway there. They have more disguises than you could ever believe!

—*Innocent Victim,*
Monroe, Louisiana

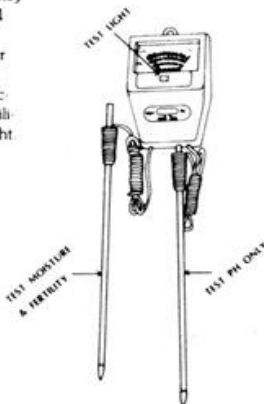
continued on page 73

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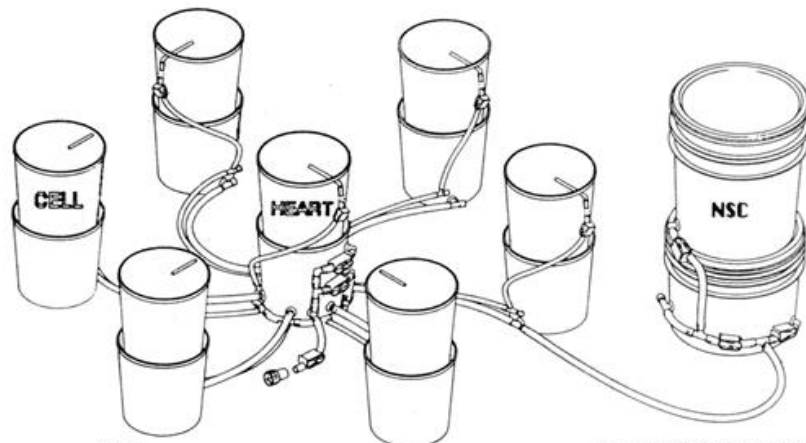
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A N E W A G E S E R V I C E

GIBSON INTERVIEW

continued from page 39

can't stand—that's, as I see it, the essence of post-modernism. Mongrelization. Hyphenization of culture. And my experience with people that have that particular sort of taste has been that they are bizarrely catholic in terms of what they like. You know, one night they'll take you to see mud wrestling, and the next night, Billy Graham. It's all grist for the mill.

Is that the way your mind works—absorbing things like flypaper?

Well, it would if I weren't so lazy. But yeah, I think that's a fairly common state for writers. I think the most difficult thing is attaining a sufficiently open mind about, you know, what you let emerge. It's largely a matter of context how effective it's going to be. It's a very intuitive process, this unwinding of memory. That's what the computer metaphor in my books is about, really, human memory—the how and the why of remembering. I think we are memory in some ways; without it we wouldn't be ourselves. Yet it is so easily subject to revision.

And therefore reality is subject to revision as well?

Yeah, I think so. That's been the main undercurrent of psychiatry for the past 50 years or so, this revision of memory and getting back to first causes. I always thought straight Freudian analysis was like a time travel story, you know—if you could work your way back in your memory, and—

—Fuck your mother—

Yeah, fuck your mother, then you're free, and it then proceeds back up the time stream. At the other end, we are approaching the point of downloading human consciousness into some sort of artificial matrix.

Downloading what? Information, or actual consciousness?

That's where I get lost . . . seems to me that information—memory—and consciousness are perhaps the same thing. But it's kind of like cloning in that we're talking about making multiple copies of human consciousness, and downloading them into anything—other bodies, robots, or Alfa Romeos, even. It's things like that that make my head hurt when I sit down and think about them. ●

ASK ED

continued from page 71

Dear Ed,

I planted some seeds six months ago under fluorescents and then moved them under a halide. They are starting to show sex under 20 hours of light. They seem to be a hardy *indica*: short, stout, with wide leaves. Is this common for *indica* or does it have *ruderalis* in it?

—Ted The Head

Olympia, Washington

Dear Ed,

I am having trouble getting *sativa* buds to mature indoors. It went through several stages of heavy flowering, but the calyx refuses to fill out. The females have been flowering for a full 90 days with a 400-watt MH lamp in a 4' x 5' closet. The lights are on 10 hours and off 14. What can I do to induce the calyx to mature?

—Injected Blown Big Block

Odessa, Texas

Although the light-darkness cycle is the method most cannabis plants use to regulate flowering, some varieties use other cues or induce flowering internally.

Pure *ruderalis* varieties begin to flower within days or weeks of germination. Since *ruderalis* is native to cold temperate areas where the summer weather varies from year to year, the population's survival is dependent upon producing seed before the weather changes. By producing and dropping seed throughout the life cycle, the plant assures a next generation.

At the equator, where the plants are the famed equatorial *sativas*, there is no variation in light cycle throughout the year; day and night are evenly divided at 12 hours. Obviously, the plants need other cues for flowering. It could be a change in the moisture level of the soil. Other possibilities that have been offered include a slight temperature change.

Dear Ed,

Just thought I'd drop a line to thank "A Skunk Grower" for the tip about termites. The bad news is that no one can tell me where to obtain cedar chips, and, in fact, I was told that no such wood exists. Please clarify the situation. Is this information fair dinkum (Aussie slang for reliable)? Is there an alternative name for wood?

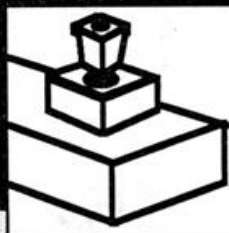
Yours sincerely,

—Desperate,

New South Wales, Australia

Cedar is a tree of the pine family (genus *Cedrus*). It has evergreen needle leaves and a very fragrant wood. There are many species. The wood re-

continued on page 75



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NEVIL ON RUDERALIS

continued from page 67

length, the plant seems to sense that the days are decreasing, and responds by putting most of its energy into flowering and seed production if fertilized. No matter what light regime the plants are under, seed production by fertilized flowers continues normally. As the seeds mature they are dropped from the plant.

"If a plant becomes heavily pollinated, all growth other than seed production stops until the seeds mature. However, after the seeds mature, the plant will restart flower production, season permitting. From a seedbreeder's point of view, this means I can get two generations out of one long season. I start them off in February in a greenhouse, picking out the best plants early in the season, and I pollinate those with preselected males. I harvest the seeds in late May or early June and repollinate the plants several weeks later. Of course, I start new plants from seed instead, since I am interested in perfecting the plant.

"*Ruderalis* is very hardy and well designed to withstand harsh, changing conditions. When it is hybridized, it lends vigor in a synergistic effect when outcrossed with more domesticated cultivars. Some of my biggest buds are produced by *ruderalis* hybrids. The percentage of *ruderalis* in these buds is minimal. Nevertheless the increased bud size and vigor of the plant remain. This could be caused by a gene on the same chromosome as the early flowering gene or a link between the alleles.

"*Ruderalis* flowers up to September 21, and then it senesces a week to ten days later. The first week of October,

buds sometime reach astounding sizes—for instance, a live bud two feet long and six inches wide at its base (on a living plant).

"Once the RFC is introduced into a line, the flowering characteristics are a lot easier to work with. It is particularly useful with equatorials, which sometimes take up to six months to finish up after induction of the flowering cycle. The runniness and hairiness are gone. The advantages are obvious to anyone. Although no experiments have been done regarding plants under high-light conditions, one would assume the buds would grow larger and more compact. On the other hand, the shorter daylength of lower latitudes would also have an influence. We do not know what happens when the plant never gets more than 14 or 15 hours of light.

"When the plant is crossed with *indica*, some interesting things happen. In northerly latitudes, *indica*s have only a limited amount of time before the introduction of flowering and ripening. When the RFC is introduced the plants have a full summer of flowering and develop much larger buds than normal. These plants, well over 90% *indica*, produce resin like the full-blooded Afghani relatives.

"Cuttings do best under constant light. They tend to flower off when rooted under less light.

"The main use for *ruderalis* is what it was naturally developed for: to start off in May or June, flowering during the summer and ripening off in early October. It might have some commercial use to a grower who is willing to ripen only a partially ripened, somewhat leafy bud for a June harvest, but as a connoisseur, that doesn't interest me." ●

ASKED

continued from page 73

tains its odor, which repels insects and other pests, for a long time. In the U.S., closets are sometimes lined with cedar to repel moths. The main species growing in the U.S. is known as *Cedrus atlantica* and has several varieties including giant, medium and small-sized groups.

I am surprised that your informants were not familiar with cedar. Cedars of Lebanon are mentioned in the Bible. Those same eroding hills forested in cedar during Biblical times are now used to grow the famous Lebanese hash.

Dear Ed,

In the July '87 HIGH TIMES, Ag from Riverside suggested using 1,1,1, Trichloroethane in place of petroleum ether for making hashish. I know nothing about making hash, but I have over ten years of experience in aircraft maintenance.

1,1,1, Trichloroethane is used in cleaning aircraft parts. It's an excellent solvent when used properly. But it's extremely dangerous when it comes in contact with living creatures. Below is a list of what happened to my co-workers and myself.

1. I've developed skin cancer.
2. 1,1,1, Trichloroethane dissolves the fatty tissue in the body. Put your finger in it and watch it turn white, or throw in a piece of fat and watch it dissolve.
3. It displaces oxygen. One quart in a 10' x 10' room can cause unconsciousness and possible death.
4. It causes headaches, dizziness, disorientation, nausea, vomiting, and heart palpitations.

All chlorinated solvents should be considered unhealthy. If you are unsure as to what a specific chemical does and what its hazards and safety precautions are, contact the wholesaler and request a copy of the Material Data Safety Sheet. If the wholesaler won't help, contact the EPA.

Please don't use this shit.
—Red,
New Bern, North Carolina

Thank you Red for your very important information. New methods of hashmaking are being developed now anyway, so these crude chemical methods will soon be a thing of the past.

Dear Ed,

I was writing in reference to your column in the June '87 issue of HIGH TIMES. "Chiles," from Northfield, New Jersey, asked about the best product for removing trapped resin in paraphernalia. I have found that Zoom, a product distrib-

continued over



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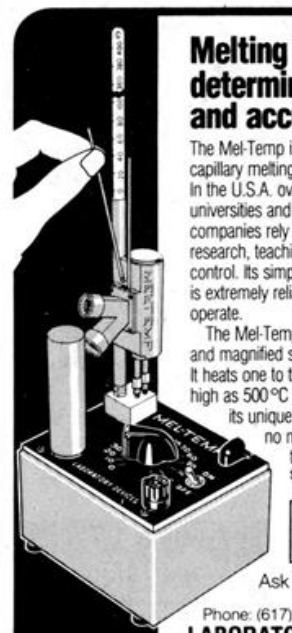
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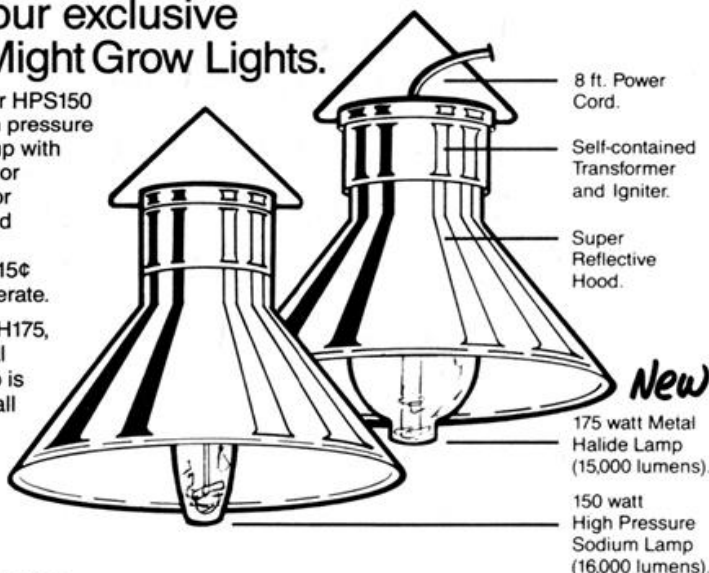
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A S K E D

continued from previous page

uted by Amway Products does a very effective job. It does not affect plastics, and requires little or no brushing.

Hope this helps.

—Vicky,
Lafayette, Louisiana

Dear Ed,

I grow in a 12' x 10' x 7' grow room using one 1000-watt HPS and one 1000-watt MH. My last crop I harvested 3.5 pounds of pure bud. My problem is that the stems of my plants are very weak and I have to use stakes to hold them up because of the dense foliage. I am using a 20-10-20 fertilizer and maintaining a temperature during the day of 75-82°F and CO₂ enrichment.

—The Gentleman Farmer,
Louisville, Kentucky

I would change the fertilizer to one with a lower percentage of nitrogen (N), which encourages fast stem growth, and raise the percentage of potassium (K) which promotes stem strength.

The form of N which you use might also be a problem. N is found in two forms as the ammonium ion (NH₄⁺) and the nitrate (NO₃⁻). The ammonium form can be used by the plant immediately to synthesize amino acids (proteins). The nitrate form must be altered before the plant can use it. When the ammonium form is given to plants under low-light conditions, it promotes rapid stem growth. The ammonium form does not promote as much growth, but the stems are stronger.

Another reason that the stems are weak may be that they do not get enough of a breeze. When plants blow in the wind, their stems suffer tiny tears in the fibers. These tears are repaired by new tissue growth, which reinforces the break. When this happens regularly, the stems become thicker and stronger. This is a natural process outdoors. Indoors it can only be supplied by creating a wind. It is better to have a strong breeze on the plants periodically for a short time than a light breeze continually, because the strong breeze will cause the plants to move, breaking the fibers and promoting stem growth.

Of course the plants could also use a gentle breeze all the time. The leaves maintain a microclimate at their surface. This thin layer of air is slightly warmer and has a lower proportion of CO₂ and a higher proportion of O₂ than the surrounding air during the lit cycle. A breeze helps to remove this stale air and replace with higher CO₂ air. During the dark cycle, when the

plant respire, it uses O₂ and produces CO₂. In this case a breeze removes the high CO₂ air and replaces it with high O₂ air.

Dear Ed,

I think that we need to do something about the price of marijuana. I think the prices suck!

I'm an everyday user of marijuana, and it ruins my buzz when I have to spend a fortune to get high. What happened to the good old days?

I think it would be a good idea if you would print more articles about doing something about it! And I'm sure that goes for the rest of us too.

Thanx,
—N.T.B.O.S.,
Romulus, Michigan

When were the good old days? In 1967? In 1967 you could buy a pound of Mexican for about \$100. The pound was 1/2-2/3 seeds, and the remaining material had a THC content of about 1%. Out of that pound you'd get about 1.9 grams of THC. (454 × .41 × .01 = 1.8614) That comes to about \$52.63 per gram of THC. However, inflation since that time is about 370%, so the cost of a gram of THC in 1987 dollars is about \$194.74.

Presently, you can buy a pound of good sinsemilla in New York for about \$3,000. This contains 95% smokeable material and a THC content of about 5%. Total THC comes to 21.6 grams, with a per-gram cost of about \$139.11. The "high-priced" sinsemilla costs only 71% of the "low-priced, good old days" pot.

In almost any industry in America the market is dominated by only a few concerns. Autos, computers, appliances, cigarettes, alcohol and TVs are manufactured by only a few corporations. Any of these companies can affect the price in the market by their actions. Marijuana is one of the few industries that is a true competitive market. No one buyer or seller or group can affect the market price because no one has a major share of the market.

The market price of marijuana represents a demand/supply equilibrium determined by the "invisible hand" of the market. So there is only one thing that you or I can do to affect the market. Either we can raise the price by buying and increasing the "demand" side of the market. Or we can lower the price by selling and contributing to the "supply" side of the market. Of course, in order to sell one must either grow or import. Middlemen do not count since they neither increase nor decrease the supply, they just transfer it.

continued on page 83



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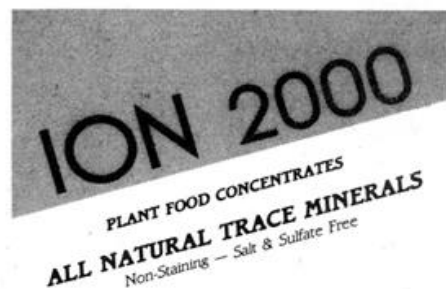
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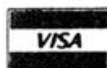
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LETTERS

continued from page 14

HATES HOWARD

Recently I read an interview in *Penthouse* magazine with Howard Stern, the New York deejay who some of your readers seem to love. Allow me to quote his drug comment for you: "In the sixties, I was heavily into that shit—acid, 'ludes—and I think it took a piece of my mind right out the door. Personally, I think that LSD is the worst fucking drug in the world. I'm just thankful my kids aren't going around as mushrooms." I hope you print this letter and tell the worst fucking deejay in the world where to shove it.

I sure as hell ain't a mushroom, since I'm going to an Ivy League school.

—A serious tripper,
 St. Louis, Missouri

Howard often talks about drugs on his program. Not everything he says is positive, and not everything he says is negative. The point is, he talks honestly about drugs, unlike the zookeepers and other deejay and veejay morons whose only drug message is "Just Say No." In fact, he's given *HIGH TIMES* a couple of plugs on his program, which reaches several million people. If you want to base your entire opinion of Howard Stern on what some *Penthouse* writer has quoted him as saying, that's your problem.

BUMMER IN NEW JERSEY

This is concerning the new drug law passed in New Jersey on July 9th of this year. First of all, we the people weren't told, or even aware, of this change in the law taking place. Why aren't we given a vote on such issues?

In this day and age, where our government is caught selling guns to Iran and making cocaine drug deals with Nicaragua, do you really think that the main concern of the people is whether or not someone smokes a marijuana cigarette? It really makes me wonder about the stability and sanity of the United States government. While I agree with them on the issues of heroin, coke, crack, PCP, angel dust, etc., I just

cannot condone the actions of a government who would compare marijuana with these dangerous substances.

For obvious reasons, this letter will be signed
 —Anonymous

P.S. I am a horror story writer, and can see no greater horror than a government making a mockery of its people.

DUMP MARSHALL!

If the state would relax the law for 30 seconds, we would rip James Marshall's throat out! How can you endorse him when he trashes the greatest bands ever? We cancelled our subscription to *Rolling Stone* because of bigoted big-mouth crap, and we're sorry to say we may have to cancel this one! Let's hear it rockers! Vote to dump Marshall in the Top 100!

—M.S., D.K. & K.K.,
 Charleston, Maryland

I dig your magazine heavily, so I'm going to be kind in my remarks, but James Marshall's (who the fuck is he?) article on the ten worst things about pop music is bullshit. Some of it I agree with—like his comments on David Bowie and Phil Collins—but when he attacked Clapton, Dylan and the Beatles, he went too fucking far.

—Electric,
 Christopher, Illinois

PHOTOTRON PHAN

Before Jeffrey DeMarco calls to give you guys hell, the Phototron II is *not* a hydroponic unit (NORML Convention, August 1987). It is fully explained in his telephone presentation and booklet, "The Garden."

Anyway, how about an article about Jeffrey DeMarco, his company, his criminology career, etc.? I know it would create a dilemma for you: How to do an article on him without giving him, in effect, pages and pages of free advertising. But is *HIGH TIMES* as optimistic about his view that marijuana will be legal by 1990?? These questions and many more could be answered by an article devoted to Mr. DeMarco.

—WHO wants to know?
 Belding, Michigan ●

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CONTRA COKE

continued from page 44

According to investigators familiar with the case, Wanda Doe's most explosive testimony involved two sets of flights made from Baranquilla, Colombia to Miami, first in October 1983, then again in October 1985. Drugs were loaded onto planes in Baranquilla, and the planes were registered to Southern Air Transport. Southern Air was also involved in the C-123 that crashed in Nicaragua, having acted as middleman in its purchase, and having maintained the plane and others used in the resupply network on behalf of North's covert operation. Wanda Doe not only named Southern Air as the carrier, she also identified one of the dead pilots, Wallace Sawyer, as the man she saw in Baranquilla. It would be days before investigators in Managua would reveal that each of the pilots on board the C-123 bore Southern Air identification cards issued to them at Ilopango, and still more days before it was learned that flight records found on the wrecked plane confirmed that a Southern Air plane had indeed flown from Baranquilla on the days Wanda Doe mentioned. Still more time would pass before it was confirmed that Sawyer was the pilot on those flights.

Yet the grant of immunity stalled. It was not until the end of October, nearly a month after Wanda Doe had delivered her proffer, that she was given a lie-detector test. It was the 30th of that month before Justice Department officials in Miami agreed to meet with Laurel Marc-Charles and discuss having her client resume her role as an undercover informant. In part the delay may be connected to Attorney General Meese's then-secret order to suspend the Southern Air investigation. By the time the FBI would resume its probe of the airline, more than a month had passed since the downing of the C-123, the story of the Iran arms sale was front page news, and Wanda Doe was living in some kind of bureaucratic limbo. She was working again for the FBI, wired with recording devices and collecting information, still travelling back and forth from Miami to Washington, and still waiting for immunity. "We cut a deal with them," says Marc-Charles, referring to the Miami office. "We'd go back to work with them with the understanding that we'd go to full immunity once she became a witness." But it was not to be.

Starting in December, the lawyer recalls, she began to receive phone calls from reporters asking for information about her client. Up until then only a short article in the *Miami News* (in which, the lawyer says, she was able to

keep her client's name and gender out of the story) might have tipped off the investigation. Now reporters were calling day after day, citing "official" sources with significant bits of information that Marc-Charles says she determined sprang from leaks at the Justice Department. In January the *Wall Street Journal*, citing officials, said the witness would be speaking to the Walsh panel investigating the Iran-Contra scandal. Later that month *Newsday* reported that the witness was a woman, and a few days later the *Washington Times* gave her a name, "Wanda." "It [the *Times*] gave the witness' first name, said she was Hispanic, and named the drug dealer she was informing on," says a Congressional investigator involved with the case. "That's pretty targeted. It's like saying to that guy: 'Hey, there's this woman named Wanda out there that you've had some dealings with, and now she's singing on you.'"

The *Washington Times* stories quoted extensively from Justice Department memos and correspondence between the Department and Senator Kerry's office. The stories suggested that Senator Kerry's investigators had interfered with the FBI's agents, even that they induced "Wanda" to alter her story to implicate the Contras. The *Washington Times*, the newspaper that established its own fundraising foundation for the Contras after Congress cut off aid, seems an unlikely beneficiary of leaks from the Kerry staff. The conclusion, shared by Marc-Charles and Congressional investigators, is that Justice was leaking with the intent of ruining Wanda Doe as a witness. "She was willing to tell them everything, and they were very reluctant to listen," says one Congressional aid. "When I saw all the publicity coming out. I got very upset and began to check it out. The stuff was coming from Justice, in quantity. They had an agent in Miami talking to people and people in Washington talking to the press. They had all kinds of people prepared to talk about anything, when usually the procedure is to say 'no comment.'"

Since February, Wanda Doe has been living in hiding. According to her attorney she changes residences frequently, although she is still talking to Congress about testimony in the Southern Air case. Unfortunately, having been twice burned and thoroughly exposed, she is cautious about giving further details. Justice officials in Miami say Wanda Doe is no longer considered a potential witness at this time, and because she is not, is not entitled to protection. "They're waiting for my client to get blown away," says Marc-Charles, and perhaps for Washington to forget that there was once a witness ready to talk about the network. ●

ASK ED

continued from page 77

Dear Ed,

This is my first time growing. I started out with 70 seedlings and kept thinning them out until I was left with the six tallest, bushiest ones. They were three feet high at ten weeks. Then I put them into flowering and all six turned out to be male. What happened? Isn't that pretty incredible?

—Trying Again,

Nashville, Tennessee

The chances of that occurring naturally are about 1.56%, or about three out of 200. However, I think you selected for what you thought were female characteristics but were really male—a good reason to use clones or to sex early. One good way of sexing is to take a clipping of a side branch of a plant and put that into flowering. It can be done by keeping the cuttings in a jar with water under a 12-hour light/12-hour dark lighting regimen. Change the water daily. Make sure to mark each cutting. This way the plants' growth is not interrupted, but they are sexed.

Dear Ed,

I have been clipping the tops off my plants to make them branch out. I figure the more branches, the higher the total bud weight even though the individual buds may be smaller. Is this true?

Sincerely,

—Troubled,

Redding, California

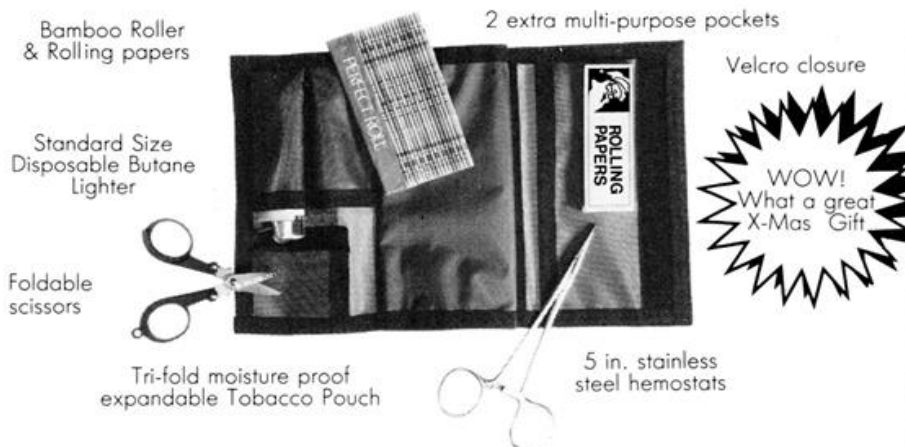
It depends on the plant variety. Some varieties do produce a greater total weight when they branch out. Other varieties lose total weight. Usually varieties with a lot of natural branching increase total weight. This does not mean that clipping should be done or that anyone should overdo it. When plants branch they take more room, so that the actual weight per unit of space may remain the same. Severe or continual clipping will set back the plant.

● I welcome comments, tips and questions regarding marijuana and marijuana cultivation. Send all letters to Ask Ed, HIGH TIMES, 211 E. 43rd St., New York, NY 10017. Also send entries for the Bud, Plant and Garden of the Month Contests. All correspondents whose letters or photos are used will receive a free copy of my book, **Marijuana Growers Handbook, Indoor/Greenhouse Edition**.

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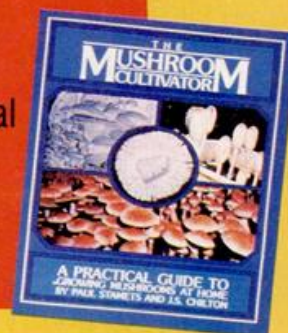
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By Jim Poling

AL CAPONE *(Columbia)*

Not quite the real thing but closer than De Palma. A decent Rod Steiger and Fay Spain, but the atmosphere recalls "The Untouchables" television series rather than the Bogart-Raft movies it tries to emulate. But that's still not bad.

SWIMMING TO CAMBODIA *(Cinecom)*

Spalding Gray on his bit part in **THE KILLING FIELDS**: "I said I knew nothing about politics. I didn't even vote. 'Perfect,' they said, 'you can play the American ambassador's aide.'" Condensed from Gray's award-winning stage monologue; he's a tireless and vivid storyteller.

RAISING ARIZONA *(CBS/Fox)*

White-trash comedy from the directors of **BLOOD SIMPLE**. Overrated, frantic and unfunny attempt to transform cartoon comedy into live-action.

ISHTAR *(Columbia)*

Elaine May's big one. Not worth the trouble for its few laughs. Pass it up in favor of May's **A NEW LEAF** (Paramount) in which she also stars as an inept moneybags. Great sight-gags in one of the best comedies of the '70s despite her claims to have disowned it.

ANGEL HEART *(Vista)*

Less a movie than a well-marketed publicity stunt built around the teasing notion that steamy footage had been edited out; that's ten seconds of Mickey Rourke's bum grinding away at miscast Lisa Bonet, and it's little surprise that this video version is making a big fat commotion over the "uncensored" restoration. Maybe there's still missing footage to explain why every other shot is of a ceiling fan. Robert De Niro stars briefly. Alan Parker is responsible for directing.

SECRET CEREMONY *(Kartes)*

Elizabeth Taylor, Robert Mitchum and Mia Farrow form a sick little triangle in a secluded mansion. A brilliant psychodrama and one of the most unsavory and grim films to feature such a respectable cast. Frequently shown on television minus nearly 30 minutes with newly shot footage of two nameless actors who tell the story in flashback eliminating the lesbian and incest angles. Rent the tape.

GEORGIA, GEORGIA *(Kartes)*

Like Dorothy Dandridge, **GEORGIA** star Diana Sands was one of the most talented black actresses working in Hollywood, and like Dandridge, Diana Sands died very young. This virtually unknown film received scant play when released (1972), and its video rescue from complete oblivion is welcome. Sands plays a rock star whose modern ideals are challenged by her more traditional black companion/surrogate mother whose desire for salvation in Sands' life leads to a climax that is unexpected, horrifying and absolute.

GOTHIC *(Vestron)*

Did you know that liquid opium inspired Mary Shelley to write *Frankenstein*? Ken Russell says so. Eyes for nipples, dead babies, comas and a lot of ranting and mincing. Brutally dull.

THE WITCHES OF EASTWICK *(Warner)*

Miserable Yuppie hit and more vomit than any summer film. Neither Jack Nicholson nor Cher command attention. Saving grace: Michelle Pfeiffer—too beautiful to waste.

THE UNTOUCHABLES *(Paramount)*

Kevin Costner makes no impression in the lead. Endless, overblown and pretentious. Will someone please stop financing Brian De Palma movies? And what's the story with that disco score?

THE THRILL KILLERS *(Camp)*

Director Ray Dennis Steckler's name usually turns up with the negligible likes of Edward Wood, Hershell Gordon Lewis and Jesse Franco, but Steckler happens to have talent. This is probably his best—a film equivalent to the *Weekly World News* in that it's seedy, a little shrill and unpleasant. Made in 1964, it's black-and-white, and, might I add, sharp photography lends a nice pulpiness to the story of a desert community troubled by escaped mental patients. Liz Renay, who stumbles nicely in her tight skirt that conceals the blade of an axe, was later rediscovered by John Waters in **DESPERATE LIVING**. If you happen to be on a Steckler kick, and gee, why shouldn't you be, look up his infamous monster musical, **THE INCREDIBLY STRANGE CREATURES WHO STOPPED LIVING AND BECAME MIXED-UP ZOMBIES** (Camp), and **THE HOLLYWOOD STRANGLER MEETS THE SKIDROW SLASHER** (Hollywood), Steckler's nerviest movie with its post-dubbed narration (there is no dialogue). It takes a good deal of patience. And finally, Steckler's atypical **WILD GUITAR** (Rhino), a teenage romance about a young rock 'n' roll star and go-go dancer longing for fame after their appearance on a cheesy local TV variety show. Simpleminded but sincere.

TOUGH GUYS DON'T DANCE *(Cannon)*

Norman Mailer adapts and directs his own novel. Isabella Rossellini seems embarrassed by the incompetence of it all. Ryan O'Neal does not. Watch for a fast theater playoff and an even faster video release.

THE PRESIDENT'S ANALYST *(Paramount)*

James Coburn in the title role and his knowledge of White House secrets puts a CIA goon squad on his tail. Nice beginning and clever ending with a terrific bit by William Daniels as a New Jersey "liberal" ("Hey, I love the Negroes") who offers his home to Coburn as cover.

THE WASP WOMAN *(Sinister Cinema)*

Poor Susan Cabot; bludgeoned to death by her deranged midget son last year. A good B actress (see her **CARNIVAL ROCK** on Admit One) Cabot was especially endearing in her horror films. Here she plays a lovely executive in a cosmetics firm whose nasty beauty secret forces her to buzz around at night stinging people to death in a foam rubber wasp head.

silver walks

shit and decides to kick, so she goes to South America or somewhere and pays 'em a few mil to clean her act up for her."

"She can't be on shit."

The bartender looked at her. "Whatever."

"But how come she'd even start doing anything? I mean, she's Angie, right?"

"Goes with the territory."

"But look at her," she protested, "she looks so good..." But Angie was gone, replaced by a black tennis player.

"You think that's her? That's a talking head."

"Head?"

"Like a puppet," a voice behind her said, and she swung around far enough to see a ruff of sandy hair and a loose white grin. "Puppet," and held up his hand, wiggling thumb and fingers, "you know?"

She felt the bartender drop the exchange, moving off down the bar. The white grin widened. "So she doesn't have to do all the stuff herself, right?"

She smiled back. Cute one, smart gray eyes and a secret halo flashing her just the signal she wanted to read. No suit trick. Kinda skinny, she could like that tonight, and the loose look of fun around his mouth set strange against the bright smart eyes.

"Michael."

"Huh?"

"My name. Michael."

"Oh. Mona. I'm Mona."

"Where you from, Mona?"

"Florida."

And wouldn't Lanette just tell her go for it?

★ ★ ★

Eddy hated art crowd people;

they weren't buying what he was selling. He'd have hated Michael more, because Michael had a job and this loft in a co-op building. Or anyway he said it was a loft, but when they got there it was smaller than Angie thought a loft was supposed to be. The building was old, a factory or something; some of the walls were sandblasted brick and the ceilings were wood and timbers. But all of it had been chopped up into places like Michael's, a room not much bigger than the one back at the hotel, with a sleeping-space off one side and kitchen and bath off the other. It was on the top floor, though, so the ceiling was mostly skylight; maybe that made it a loft. There was horizontal red paper shade below

the skylight, hooked up to strings and pulleys, like a big kite. The place was kind of messy but the stuff that was scattered around was all new: some skinny white wire chairs strung with loops of clear plastic to sit on, a stack of entertainment modules, a work station, and a silver leather couch.

They started out on the couch but she didn't like the way her skin stuck to it, so they moved over to the bed, back in its alcove.

That was when she saw the recording gear, stim stuff, on white shelves on the wall. But the wiz had kicked in again and anyway, if you've decided to go for it, you might as well. He got her into the pick-up, a black rubber collar with trode-tipped fingers pressing the base of her skull. Wireless; she knew that was expensive.

While he was getting his own set on and checking the gear on the walls, he talked about his job, how he worked for a company in Memphis that thought up new names for companies. Right now he was trying to think of one for a company called Cathode Cathay. They need it bad, he said, and laughed, but then he said it wasn't easy. Because there were so many companies already that the good names had been used up. He had a computer that knew all the names of all the companies, and another one that made up words you could use for names, and another one that checked if the made-up words meant dickhead or something in Chinese or Swedish. But the company he worked for didn't just sell names, they sold what he called image, so he had to work with a bunch of other people to make sure the name he came up with fit the rest of the package.

Then he got into bed with her and it wasn't really great, like the fun was gone and she might as well have been a trick, how she just lay there thinking he was recording it all so he could play it back when he wanted, and how many others did he have in there anyway?

So she lay there beside him, afterward, listening to him breathe, until the wiz started turning tight little circles down on the floor of her skull, flipping her the same sequence of unconnected images over and over: the plastic bag she'd kept her things in down in Florida, with its twist of wire to keep the bugs out—the old man sitting at the chipboard table, peeling a potato with a butcher knife worn down to a nub about as long as her thumb—a krill place in Cleveland that was shaped like a shrimp or something, the plates of its arched back bent from sheet metal and clear plastic, painted pink and orange—the preacher she'd seen when she'd gone to get

her new clothes, him and his pale fuzzy Jesus. Each time the preacher came around, he was about to say something, but he never did. She knew it wouldn't stop unless she got up and got her mind onto something else. She crawled off the bed and stood there looking at him in the gray glow from the skylight. *Rapture. Rapture's coming.*

So she went out into the room and pulled her dress on because she was cold. She sat on the silver couch. The red shade turned the gray of the skylight pink, as it got lighter outside. She wondered what a place like this cost.

Now that she couldn't see him, she had trouble remembering what he looked like. Well, she thought, he won't have any trouble remembering me, but thinking that made her feel hit or hurt or jerked around, like she wished she'd stayed at the hotel and stimmed Angie.

The gray-pink light was filling up the room, pooling, starting to curdle at the edges. Something about it reminded her of Lanette and the stories that she'd o.d.'d. Sometimes people o.d.'d in other people's places, and the easiest thing was just toss them out the window, so the cops couldn't tell where they came from.

But she wasn't going to think about that, so she went into the kitchen and looked through the fridge and the cabinets. There was a bag of coffee beans in the freezer, but coffee gave you the shakes on wiz. There were a lot of little foil packets with Japanese labels, freeze-dried stuff. She found a package of teabags and tore the seal from one of the bottles of water in the fridge. She put some of the water in a pan and fiddled with the cooker until she got it to heat up. The elements were white circles printed on the black countertop; you put the pan in the center of a circle and touched a red dot printed beside it. When the water was hot, she tossed one of the teabags in and moved the pan off the element.

She leaned over the pan, inhaling herb-scented steam.

She never forgot how Eddy looked, when he wasn't around. Maybe he wasn't much, but whatever he was, he was there. You have to have one face around that doesn't change. But thinking about Eddy now maybe wasn't such a good idea either. Pretty soon the crash would come on, and before then she'd have to figure out a way to get back to the hotel, and suddenly it seemed like everything was too complicated, too many things to do, angles to figure, and that was the

crash, when you had to start worrying about putting the day side together again.

She didn't think Prior was going to let Eddy hit her, though, because whatever he wanted had something to do with her looks. She turned around to get a cup.

Prior was there in a black coat. She heard her throat make a weird little noise all by itself.

She'd seen things before, crashing on wiz; if you looked at them hard enough, they went away. She tried it on Prior but it didn't work.

He just stood there, with a kind of plastic gun in his hand, not pointing it at her, just holding it. He was wearing gloves like the ones Gerald had worn for the examination. He didn't look mad but for once he wasn't smiling. And for a long time he didn't say anything at all, and Mona didn't either.

"Who's here?" Like you'd ask at a party.

"Michael."

"Where?"

She pointed toward the sleeping-space.

"Get your shoes."

She walked past him, out of the kitchen, bending automatically to hook her underwear up from the carpet. Her shoes were by the couch.

He followed and watched her put her shoes on. He still had the gun in his hand. With his other hand, he took Michael's leather jacket from the back of the couch and tossed it to her. "Put it on," he said. She did, and tucked the underwear into one of its pockets.

He picked up the torn white raincoat, wadded it into a ball, and put it into his coat pocket.

Michael was snoring. Maybe he'd wake up soon and play it all back. With the gear he had, he didn't really need anybody there.

In the corridor, she watched Prior relock the door with a gray box. The gun was gone, but she hadn't seen him put it away. The box had a length of red flex sticking out of it with an ordinary-looking magnetic key on the end.

Out in the street was cold. He took her down the block and opened the door of a little white three-wheeler. She got in. He got in the driver's side and peeled the gloves off. He started the car; she watched a blowing cloud reflected in the copper-mirrored side of a business tower.

"He'll think I stole it," she said, looking down at the jacket.

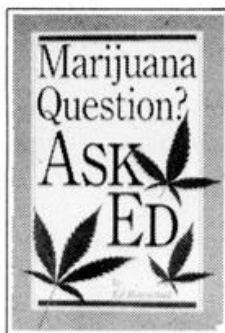
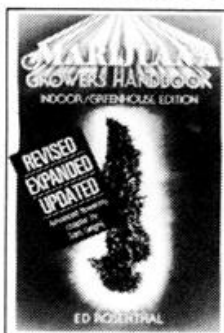
Then the wiz flashed a final card, ragged cascade of neurons across her synapses: Cleveland in the rain and a good feeling she had once, walking.

Silver. ●

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POT & HEALTH

continued from page 68

SUMMARY:

Enough is known about the effects of marijuana to keep most researchers from saying that the heavy, chronic smoker will get a completely free ride. There have been demonstrable negative effects to the lungs and unanswered questions regarding several other bodily functions. It's questionable whether these represent a serious danger to the user: The answer you get depends on the researcher you speak with. At this time, the adverse effects appear fully reversible through abstinence, though a good deal more research is hoped for in several areas to clarify the issue.

Information in this report was compiled primarily through the use of several research review/overview reports. Specific bibliographical requests will be furnished on request. Address queries to **Peter Gorman, c/o HIGH TIMES, 211 E. 43rd St., New York, NY 10017.**

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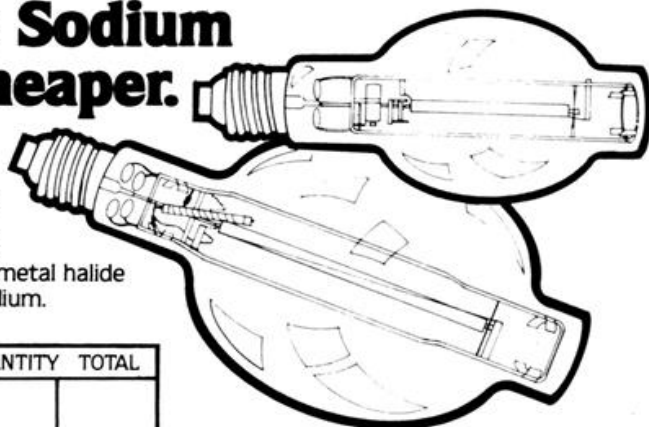
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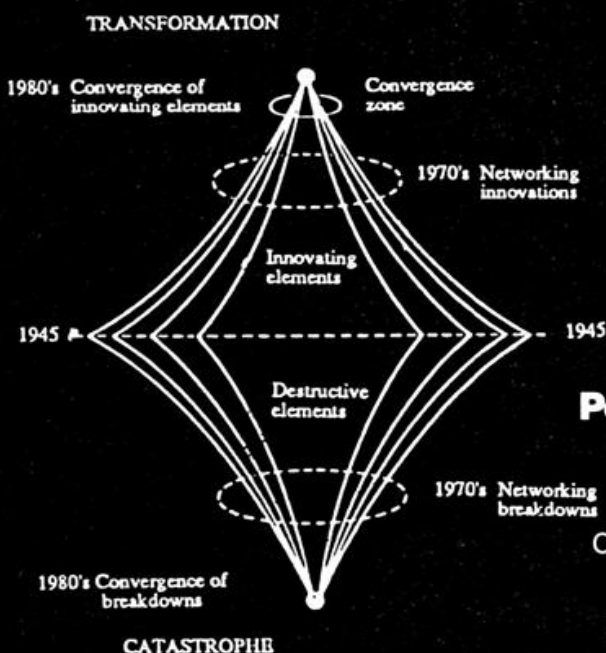


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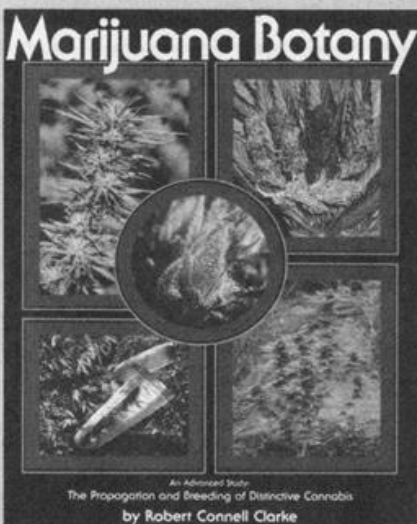
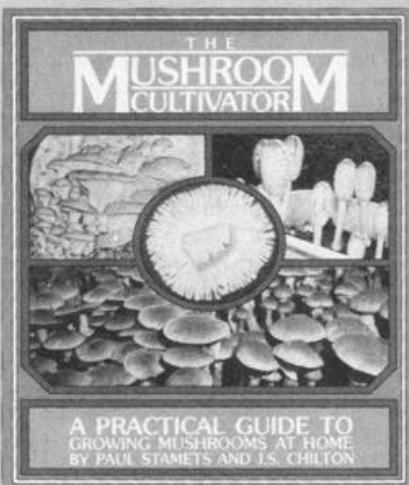
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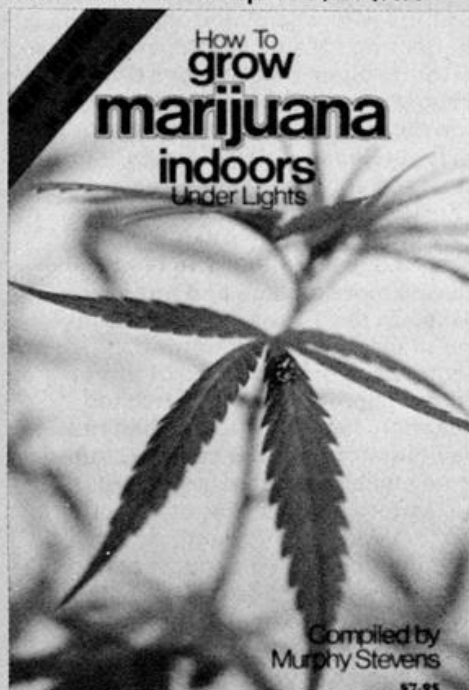
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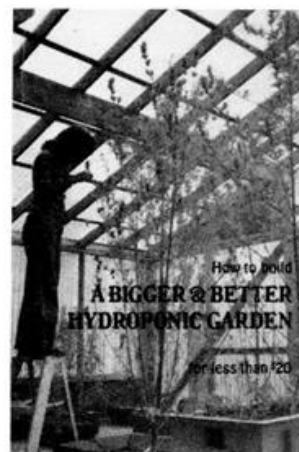
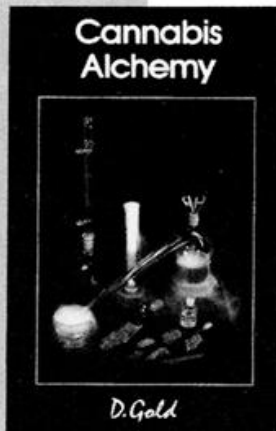
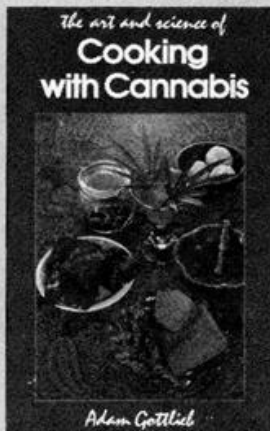
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By James Marshall

I'm beginning to think it's no accident **Bruce Springsteen** has become the reigning rock icon of the Reagan administration, a time when Orwellian double-think passes for logic, and romanticized crap loaded with right- and left-wing garbage passes for rock.

For example: Why didn't Springsteen just tell Reagan to fuck off?

And why aren't his rock star digs available for public viewing on **Lifestyles of the Rich and Famous**? Does he think he's better than Joan Collins or Liberace? Are we supposed to believe he lives in a tenement?

And what do we really know about his wife? I heard her complaining on the news that "the worst thing that ever happened to her was getting braces." I guess it takes a special kind of girl to appreciate a man who refers to women as **little girl** in all his songs.

One final complaint. Why can't the guys in the band smoke herb, Bruce? Some friends of mine were recording down the hall a few years back and said the band was totally paranoid about gettin' caught smoking by the Boss. Isn't real rock 'n' roll supposed to be free from stupid laws, petty morals and self-righteous fascism?

The unfortunate answer to all these questions is that Springsteen's media

image is more tightly controlled than a mosquito's clicker. The yuppies and neo-conservatives are shown the flag-waving, commie-killing Rambo, while the liberals are led to believe he's a tear-jerking, bleeding heart of social concern.



One guy who'd never be silly enough to put his butt on an album cover is **Hasil Adkins**. No, Hasil'd rather be seen dipplin' into some clam, as the cover of his new disc **THE WILD MAN** (Norton) will attest to. Here is a man who doesn't have to come off as some sort of blue collar hero to his audience; he's too busy playing guitar and drums at the same time, and thinking about important things, like girls, cars, fried chicken, and decapitation.

Raised in a tar paper shack in the coal mining mountains of West Virginia, Adkins has been recording primitive one-man band music for 30 years on a one-track machine. Crazy rock 'n' roll classics like "She Said,"



Above: Hasil goes clam dipplin' on his new album cover.

"The Hunch," "Chicken Walk," and "No More Hotdogs" were released sporadically on a handful of labels to a not-quite-ready public. These obscure sides and several hours of previously unreleased material managed to surface last year on four LP's and one EP from three different labels in three different countries: **OUT TO LUNCH** and **HAZE'S HOUSE PARTY** (Norton, US), **CHICKEN WALK** and **ROCK 'N' ROLL TONIGHT** (Dee Jay Jamboree, West Germany), and **HE SAID** (Big Beat, UK).

Not only does Adkins play rockabilly guitar like a countryfied Lightnin' Hopkins on Methedrine, but he sings with wild abandon, interjecting satanic laughs and freaky cartoon voices. These sides have brought him world acclaim (though little dinero) and paved the way for his current release, Adkins' first venture into a real recording studio.

Fortunately, modern technology does little to change Adkins' hunch and grind. If anything, **The Wild Man** sounds more savage and possessed. Eleven of the 14 songs are done in one-man band style recorded in single takes over a period of three nights. There's some very twisted rockabilly here, a couple of ballads, the obligatory murder fantasy, and some classics twisted inside out (dig the Carter Family's "Foggy Mountain Top" revved up to 78 rpm). Adkins even includes some collaborations with a New York combo, **The A-Bones**, which sound like backwoods Velvet Underground.

The choice is yours, folks: A phoney, media-made creation who makes a billion bucks a year, or a real folk hero who lives in a tar paper shack and churns out demented rock 'n' roll like he's just passin' time 'till judgment day. ●

WHAT?

IT CAN'T BE!

BUT IT IS!

IT'S THE TOP 100 ALL RIGHT!

IT'S A CONSPIRACY!

I THINK IT'S FUNNY!

I THINK IT'S JUST AWFUL!



1. LT. COL. OLLIE NORTH
2. STICKY GREEN MOIST SONOMA BUDS (13)
3. RON REAGAN
4. GRATEFUL DEAD (20)
5. HIGH TIMES
6. ANGRY SAMOANS (22)
7. BEER (25)
8. PINK FLOYD (1)
9. BONG HITS (23)
10. SEX (3)
11. RASTA + DREADY (MY GANJA-GUARDING PIT BULLS)
12. LIGHTING FARTS (47)
13. SEX PISTOLS
14. GENESIS
15. STP
16. EZEKIEL 23
17. ROKY ERICSON
18. MURPHY'S LAW (N.Y. HARDCORE BAND)
19. INDOOR GROWING (10)
20. LED ZEP (7)
21. DAVID LETTERMAN
22. ALASKAN MATANUSKA THUNDERFUCK
23. IRON MAIDEN
24. JOINING NORML (51)
25. CAPTAIN BEEFHEART

26. FREEDOM (19)
27. DAN the MAN
28. HANGING OLIVER NORTH
29. DETROIT TIGERS
30. DUMP RAYGUN (53)
31. TEN-POUND BAG OF OREO COOKIES
32. Thai Sticks
33. EQUIDEMIUS (R.I.P.) (41)
34. Johnny Paycheck
35. CATS (THEY LIKE TO GET HIGH TOO!) (3)
36. Harley Davidsons
37. GETTING STONED ON CANOE FLOAT TRIPS
38. METALLICA (FREE IMPROVISATIONAL MUSIC (ESP. THE INSTANT COMPOSERS SCHOOL))
39. GUITARS (FENDERS)
40. BUGLES
41. 13th Floor Elevators
42. ROMANCE
43. PRISCILLA PANCAOST (PLEASE PUT THIS IN! SHE READS THIS MAG! I LOVE HER LIKE YOU WOULDN'T BELIEVE!)
44. BORDER COLLIES
45. BOB MARLEY AND ALL REGGAE
46. ALICE COOPER
47. ROB'S PLACE (NEW ORLEANS)
48. REEFER
49. PEACE (55)

50. TROJAN WATER BOMBS (RECEPTACLE END)
51. Pirate Radio
52. PARTYING IN CHICAGO (FROM THE WILSON PARK PARTIES)
53. MONKEY DOODLE (OBSCURE CARTOON)
54. W.A.S.P.
55. LET THE SHMEE GROW FUCKIN' FREE
56. big dicks
57. Aleister Crowley
58. GROWING YOUR OWN HAPPY SMOKE AND GETTING 13 INCH BUDS OFF OF THEM
59. SID + NANCY (R.I.P.)
60. BARF IN MY BOOTS
61. LSD (2)
62. Cheech + Chong
63. WHOEVER NAILED
64. JUDGE "MAXIMUM JOHN" WOOD
65. GUBUD (THE KILLER GREEN)
66. ED MEESE IN PRISON
67. ANY TRACY LORDS FLICK
68. McBUZZ Bros.
69. DOING BUDS WITH EL KABONG (THE CARTOON DUDE)
70. TURNING 21!!!!
71. G.L.O.W.
72. KENTUCKY SINSE
73. ROBERT PLANT (NO RELATION TO EGGPLANT)
74. MOTLEY CRUE
75. Wet Monkey Love

76. BEING A NORML MEMBER AND WRITING MY STATE'S REPRESENTATIVES
77. GOD
78. MY PHOTOTRON (THANKS, JEFF!)
79. NO MUFF IS TOO TUFF
80. SURFIN'
81. RADIO KAOS
82. KURT VONNEGUT, JR.
83. I LOVE MY BUD
84. COP WITH A FLAT TIRE MIKE + JEANETTE
85. The Dead Milkmen
86. MTV - GET OFF THE AIR
87. Debbie Harry
88. CONVINCING MOM (WHEN SHE DROPS IN UNEXPECTEDLY) THAT I'M NOT STONED
89. SEX ON THE ROOF
90. MR. ZOG'S SEX WAX
91. BAT SHIT
92. TEACHERS THAT SMOKE DOPE
93. HIDING THE SALAMI
94. THIS "BUDS" FOR YOU
95. BAD BRAINS (N.Y. HARDCORE BAND)
96. BRADY BUNCH RERUNS
97. FAT + UGLY GIRLS (BUT NOT TELLING ANYONE)
98. WATCHIN' PRO WRASSLIN'
99. ALL DAY SATURDAY
100. HORIZONTAL RAIN (OR MAYBE IT WAS THE TWO HITS OF BLOTTER ACID I TOOK)



JOIN NORML? BUT OF COURSE! METALLICA SHOULD BE HIGHER UP!! YEAH! MOTLEY CRUE, TOO! YEAH. I'LL BET!

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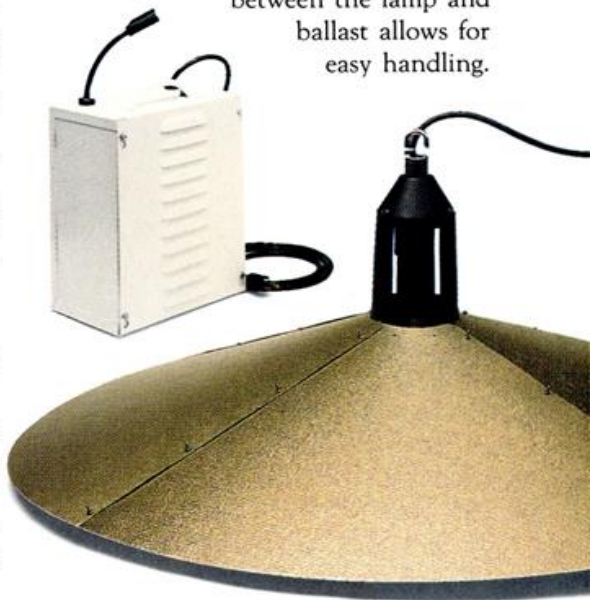
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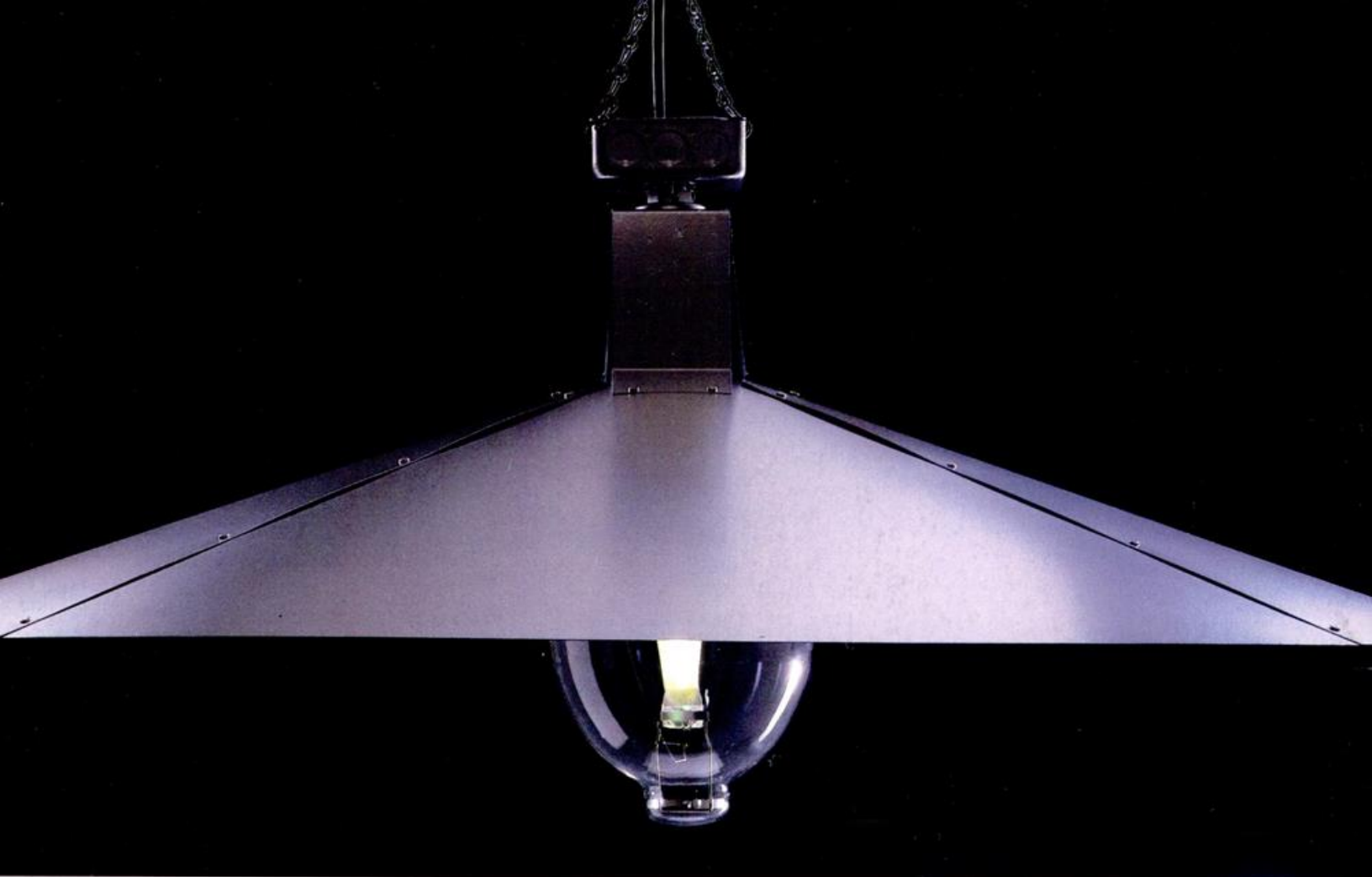
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